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NA

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=====
=====
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That's all there is to it!

```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovnt != 0) for Rx skb's passed to vcc->push.
```

```

*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*/

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1.5 busybox 1.18 :4

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.6 cksum.c 1.1.1.1

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```

```
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* @(#)in_cksum.c 8.1 (Berkeley) 6/10/93
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1.7 ConvertUTF 1.0

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- *
- * 1999/12/03: Linus Torvalds (cramfs tester and unarchive program)
- * 2000/06/03: Daniel Quinlan (CRC and length checking program)
- * 2000/06/04: Daniel Quinlan (merged programs, added options, support
- * for special files, preserve permissions and
- * ownership, cramfs superbblock v2, bogus mode
- * test, pathname length test, etc.)
- * 2000/06/06: Daniel Quinlan (support for holes, pretty-printing,
- * symlink size test)
- * 2000/07/11: Daniel Quinlan (file length tests, start at offset 0 or 512,
- * fsck-compatible exit codes)
- * 2000/07/15: Daniel Quinlan (initial support for block devices)
- * 2002/01/10: Daniel Quinlan (additional checks, test more return codes,
- * use read if mmap fails, standardize messages)
- */

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1.9 curl 7.59.0 :r0.0

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=====

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1.10 dnsmasq 2.47

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```

```
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Also add information on how to contact you by electronic and paper mail.

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From: Simon Kelley <simon@thekelleys.org.uk>

Sent: 18 September 2013 14:08

To: Damian Le Gresley (damlegre)

Subject: Re: dnsmasq licencing

Damian,

All the code in dnsmasq carries the following statement, so you elect to use the entire application under the terms of GPLv2.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 dated June, 1991, or
(at your option) version 3 dated 29 June, 2007.

BTW, what's a "small cell product"?

Cheers,

Simon.

On 18/09/13 14:03, Damian Le Gresley (damlegre) wrote:

> Dear Simon,

>
> We would like to use your dnsmasq application in one of our Small Cell
> products but it is not clear to us whether the GPLv2 or GPLv3 licencing
> terms stated in the two COPYING files are disjunctive or conjunctive.
> i.e. Can we choose whether to use it under GPLv2 licencing only, or are
> parts of it also licenced under GPLv3 and hence we must respect the most
> restrictive licence.
>
> I found your post from back in 2007 where you were asking for opinions
> on what should be done:
> <http://lists.thekelleys.org.uk/pipermail/dnsmasq-discuss/2007q3/001566.html>
>
> I cannot find the conclusion of this discussion but I think you chose
> option 3 (disjunctive licence) as your CHANGELOG has the comment “Added
> GPL version 3 as a licence option”; hence we can choose to only apply
> the GPLv2 licence.
>
> I welcome your clarification.
>
> Best regards,
>
> Damian
>
> <http://www.cisco.com/web/europe/images/email/signature/logo02.jpg>
>
> *Damian Le Gresley*
> Senior Software Engineering Manager
> Small Cells Technology Group

1.11 ethtool 6.0

1.11.1 Available under license :

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```

```
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1.12 gmp 4.2.1

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@item

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@item

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```
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```

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

@subheading How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

/*

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*

* Author: Daniel Kahn Gillmor <dkg@fifthhorseman.net>

* pgps2kgnu: test GNU extensions to the OpenPGP S2K specification.

* at the moment, we just test the "GNU dummy" S2K

* extension.

*

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*/

```
#ifdef HAVE_CONFIG_H
```

```
# include <config.h>
```

```
#endif
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include <gnutls/gnutls.h>
```

```
#include <gnutls/openpgp.h>
```

```
static char dummy_key[] =
```

```
"-----BEGIN PGP PRIVATE KEY BLOCK-----\n"
```

```
"Version: GnuPG v1.4.9 (GNU/Linux)\n"
```

```
"\n"
```

```
"IQCVBEO3YdABBACRqqEnucag4+vyZny2M67Pai5+5suIRRvY+Ly8Ms5MvgCi3Evv\n"
```

```
"xT05O/+0ShiRaf+QicCOFrhbU9PZzzU+seEvkeW2UCu4dQfILkmj+HBEIltGnHr3\n"
```

```
"G0yegHj5pnqrcezERURf2e17gGFWX91cXB9Cm721FPXczuKraphKwCA9PwARAQAB\n"
```

```

"/gNIakdOVQG0OURIbW9uc3RyYXRpb24gS2V5IGZvciBTMksgR05VIGV4dGVuc2lv\n"
"biAxMDAxIC0tIGdudS1kdW1teYi8BBMBAgAmBQJDt2HQAhsDBQkB4TOABgsJCAcD\n"
"AgQVAggDBBYCAwEChgECF4AACgkQQZUwSa4UDEzTOQP/TMQXUvRwzHYZGopoPZ2+\n"
"ZS3qddiznBHsgb7MGYg1KITiVJSroDUBCHIUVjdQKZV9zrzrFl47D07x6hGyUPHV\n"
"aZXvuITW8t1o5MMHkCy3pmJ2KgfDvdUxrBvLfgPMICA4c6zA0mWquee43syEW9NY\n"
"3q61iPIQwD1J1kX1wlmlcAdgEQ7dh0AEEANawa63zlQbuy1Meliy8otwiOa+a\n"
"mH6pXXUgUNggjyO5qx+r125mMjvGIRX4/L1QwIBXJBVi3SgvJW1COZxZqBYqj9U\n"
"8HVT07mWKFEDf0rZLeUE2jTm16cF9fcW4DQhW+sfYm+hi2sY3HeMuwlUBK9KHfW2\n"
"+bGeDzVZ4pqfUEudABEBAAEAA/0bemib+wXub9IyVFUp7nPobjQC83qxLSNzrGI\n"
"RHZgu/5CQi4ftLONwbcQsLELfer2hYnjsLrT9PURqK4F7udrWEoZ1I1LymOtLG\n"
"4tNZ7Mnul3wRC2tCn7FKx8sGJwGh/3li8vZ6ALVJAyOia5TZ/buX0+QZzt6+hPKk\n"
"7MU1WQIA4bUBjtrsqDwro94DvPj3/jBnMZbXr6WZIIeLNeVDUcM8oHL807Am97K1\n"
"ueO/f6v1sGAHG6IVPTmtekqPSTWBfwIA7CGFvEYvSALfB8NUa6jtk27NCiw0csq\n"
"kuhCmwXGMVOiryKEfegkIahf2bAd/gnWHPPrpWp7bUE20v8YoW22I4wIAhnm5Wr5Q\n"
"Sy7EHDUxmJm5TzadFp9gq08qNzHBpXSYYXJ3JuWcL1/awUqp3tE1I6z0hZ38Ia6\n"
"SdBMN88idnhDPqPoiKUEGAECOA8FAkO3YdACGyAFCQHhM4AACgkQQZUwSa4UDEzm\n"
"vQP/ZhK+2ly9o12z7ZcNC/BJRch0/ybQ3haahII8pXXmOThpZohr/LUgoWgCZdXg\n"
"vP6yisZnK2ts8KphCAw7Lw/qzDC2hEORjW04f46qk73RAGsQg/GyzI4ltWiDhq\n"
"vnQCFI3+QFSe4zinqykHnLwGPMXv428d/ZjkIc2ju8dRsn4=\n"
"=CR5w\n" "-----END PGP PRIVATE KEY BLOCK-----\n";

```

/* Test capability of reading the gnu-dummy OpenPGP S2K extension.

See: doc/DETAILS from gnupg

<http://lists.gnu.org/archive/html/gnutls-devel/2008-08/msg00023.html>

*/

```

int
main (void)
{
    int rc;
    gnutls_datum_t keydatum =
        { (unsigned char *) dummy_key, strlen (dummy_key) };
    gnutls_openpgp_privkey_t key;

    rc = gnutls_global_init ();
    if (rc)
    {
        printf ("gnutls_global_init rc %d: %s\n", rc, gnutls_strerror (rc));
        return 1;
    }

    rc = gnutls_openpgp_privkey_init (&key);
    if (rc)
    {
        printf ("gnutls_openpgp_privkey_init rc %d: %s\n",
            rc, gnutls_strerror (rc));
        return 1;
    }
}

```

```

rc = gnutls_openpgp_privkey_import (key, &keydatum,
    GNUTLS_OPENPGP_FMT_BASE64, NULL, 0);
if (rc)
{
    printf ("gnutls_openpgp_privkey_import rc %d: %s\n",
        rc, gnutls_strerror (rc));
    return 1;
}

gnutls_openpgp_privkey_deinit (key);

gnutls_global_deinit ();

return 0;
}
/*
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 *
 * Author: Simon Josefsson
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 */

#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>

#include "utils.h"

void
doit (void)

```

```

{
printf ("GnuTLS header version %s.\n", GNUTLS_VERSION);
printf ("GnuTLS library version %s.\n", gnutls_check_version (NULL));

if (gnutls_check_version (GNUTLS_VERSION))
    success ("gnutls_check_version OK\n");
else
    fail ("gnutls_check_version ERROR\n");

{
const gnutls_pk_algorithm_t *algs;
size_t i;
int pk;

algs = gnutls_pk_list ();
if (!algs)
    fail ("gnutls_pk_list return NULL\n");

for (i = 0; algs[i]; i++)
    {
printf ("pk_list[%d] = %d = %s = %d\n", i, algs[i],
gnutls_pk_algorithm_get_name (algs[i]),
gnutls_pk_get_id (gnutls_pk_algorithm_get_name (algs[i]));
if (gnutls_pk_get_id (gnutls_pk_algorithm_get_name (algs[i]))
    != algs[i])
    fail ("gnutls_pk id's doesn't match\n");
    }

pk = gnutls_pk_get_id ("foo");
if (pk != GNUTLS_PK_UNKNOWN)
    fail ("gnutls_pk unknown test failed (%d)\n", pk);

success ("gnutls_pk_list ok\n");
}

{
const gnutls_sign_algorithm_t *algs;
size_t i;
int pk;

algs = gnutls_sign_list ();
if (!algs)
    fail ("gnutls_sign_list return NULL\n");

for (i = 0; algs[i]; i++)
    {
printf ("sign_list[%d] = %d = %s = %d\n", i, algs[i],
gnutls_sign_algorithm_get_name (algs[i]),

```

```

gnutls_sign_get_id (gnutls_sign_algorithm_get_name
    (algs[i]));
if (gnutls_sign_get_id (gnutls_sign_algorithm_get_name (algs[i])) !=
    algs[i])
    fail ("gnutls_sign id's doesn't match\n");
}

pk = gnutls_sign_get_id ("foo");
if (pk != GNUTLS_PK_UNKNOWN)
    fail ("gnutls_sign unknown test failed (%d)\n", pk);

success ("gnutls_sign_list ok\n");
}
}
/*
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*
* Author: Simon Josefsson
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*
*/

#include "gnutls_int.h"
#include "gnutls_auth.h"
#include "gnutls_errors.h"
#include "gnutls_num.h"
#include "ext_inner_application.h"
#include <gnutls/extra.h>

#define NO 0
#define YES 1

int

```

```

_gnutls_inner_application_recv_params (gnutls_session_t session,
    const opaque * data, size_t data_size)
{
    tls_ext_st *ext = &session->security_parameters.extensions;

    if (data_size != 1)
    {
        gnutls_assert ();
        return GNUTLS_E_UNEXPECTED_PACKET_LENGTH;
    }

    ext->gnutls_ia_peer_enable = 1;
    ext->gnutls_ia_peer_allowskip = 0;

    switch ((unsigned char) *data)
    {
        case NO: /* Peer's ia_on_resume == no */
            ext->gnutls_ia_peer_allowskip = 1;
            break;

        case YES:
            break;

        default:
            gnutls_assert ();
    }

    return 0;
}

/* returns data_size or a negative number on failure
*/
int
_gnutls_inner_application_send_params (gnutls_session_t session,
    opaque * data, size_t data_size)
{
    tls_ext_st *ext = &session->security_parameters.extensions;

    /* Set ext->gnutls_ia_enable depending on whether we have a TLS/IA
    credential in the session. */

    if (session->security_parameters.entity == GNUTLS_CLIENT)
    {
        gnutls_ia_client_credentials_t cred = (gnutls_ia_client_credentials_t)
        _gnutls_get_cred (session->key, GNUTLS_CRD_IA, NULL);

        if (cred)

```



```

ext->gnutls_ia_enable = 1;
}
else
{
    gnutls_ia_server_credentials_t cred = (gnutls_ia_server_credentials_t)
_gnutls_get_cred (session->key, GNUTLS_CRD_IA, NULL);

    if (cred)
ext->gnutls_ia_enable = 1;
}

/* If we don't want gnutls_ia locally, or we are a server and the
 * client doesn't want it, don't advertise TLS/IA support at all, as
 * required. */

if (!ext->gnutls_ia_enable)
    return 0;

if (session->security_parameters.entity == GNUTLS_SERVER &&
    !ext->gnutls_ia_peer_enable)
    return 0;

/* We'll advertise. Check if there's room in the hello buffer. */

if (data_size < 1)
{
    gnutls_assert ();
    return GNUTLS_E_SHORT_MEMORY_BUFFER;
}

/* default: require new application phase */

*data = YES;

if (session->security_parameters.entity == GNUTLS_CLIENT)
{

    /* Client: value follows local setting */

    if (ext->gnutls_ia_allowskip)
*data = NO;
}
else
{

    /* Server: value follows local setting and client's setting, but only
     * if we are resuming.
     */

```

```

* XXX Can server test for resumption at this stage?
*
* Ai! It seems that read_client_hello only calls parse_extensions if
* we're NOT resuming! That would make us automatically violate the IA
* draft; if we're resuming, we must first learn what the client wants
* -- IA or no IA -- and then prepare our response. Right now we'll
* always skip IA on resumption, because recv_ext isn't even called
* to record the peer's support for IA at all. Simon? */

    if (ext->gnutls_ia_allowskip &&
        ext->gnutls_ia_peer_allowskip &&
        session->internals.resumed == RESUME_TRUE)
*data = NO;
    }

return 1;
}
/*
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*
* Author: Simon Josefsson
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*/

#include "gnutls_int.h"
#include "gnutls_record.h"
#include "gnutls_errors.h"
#include "gnutls_num.h"
#include "gnutls_state.h"
#include <gnutls/extra.h>

#define CHECKSUM_SIZE 12

struct gnutls_ia_client_credentials_st

```

```

{
    gnutls_ia_avp_func avp_func;
    void *avp_ptr;
};

struct gnutls_ia_server_credentials_st
{
    gnutls_ia_avp_func avp_func;
    void *avp_ptr;
};

static const char server_finished_label[] = "server phase finished";
static const char client_finished_label[] = "client phase finished";
static const char inner_permutation_label[] = "inner secret permutation";
static const char challenge_label[] = "inner application challenge";

/*
 * The TLS/IA packet is the InnerApplication token, described as
 * follows in draft-funk-tls-inner-application-extension-01.txt:
 *
 * enum {
 *     application_payload(0), intermediate_phase_finished(1),
 *     final_phase_finished(2), (255)
 * } InnerApplicationType;
 *
 * struct {
 *     InnerApplicationType msg_type;
 *     uint24 length;
 *     select (InnerApplicationType) {
 *         case application_payload:     ApplicationPayload;
 *         case intermediate_phase_finished: IntermediatePhaseFinished;
 *         case final_phase_finished:     FinalPhaseFinished;
 *     } body;
 * } InnerApplication;
 *
 */

/* Send TLS/IA data. If data==NULL && sizeofdata==NULL, then the last
send was interrupted for some reason, and then we try to send it
again. Returns the number of bytes sent, or an error code. If
this return E_AGAIN and E_INTERRUPTED, call this function again
with data==NULL&&sizeofdata=0NULL until it returns successfully. */
static ssize_t
_gnutls_send_inner_application (gnutls_session_t session,
    gnutls_ia_apptype_t msg_type,
    const char *data, size_t sizeofdata)
{
    opaque *p = NULL;

```

```

size_t plen = 0;
ssize_t len;

if (data != NULL)
{
    plen = sizeofdata + 4;
    p = gnutls_malloc (plen);
    if (!p)
    {
        gnutls_assert ();
        return GNUTLS_E_MEMORY_ERROR;
    }

    *(unsigned char *) p = (unsigned char) (msg_type & 0xFF);
    _gnutls_write_uint24 (sizeofdata, p + 1);
    memcpy (p + 4, data, sizeofdata);
}

len = _gnutls_send_int (session, GNUTLS_INNER_APPLICATION, -1, p, plen);

if (p)
    gnutls_free (p);

return len;
}

/* Receive TLS/IA data. Store received TLS/IA message type in
 *MSG_TYPE, and the data in DATA of max SIZEOFDATA size. Return the
number of bytes read, or an error code. */
static ssize_t
_gnutls_rcv_inner_application (gnutls_session_t session,
    gnutls_ia_apptype_t * msg_type,
    opaque * data, size_t sizeofdata)
{
    ssize_t len;
    uint32_t len24;
    opaque pkt[4];

    len = _gnutls_rcv_int (session, GNUTLS_INNER_APPLICATION, -1, pkt, 4);
    if (len != 4)
    {
        gnutls_assert ();
        return GNUTLS_E_UNEXPECTED_PACKET_LENGTH;
    }

    *msg_type = pkt[0];
    len24 = _gnutls_read_uint24 (&pkt[1]);

```

```

if (*msg_type != GNUTLS_IA_APPLICATION_PAYLOAD && len24 != CHECKSUM_SIZE)
{
    gnutls_assert ();
    return GNUTLS_E_UNEXPECTED_PACKET_LENGTH;
}

if (sizeofdata < len24)
{
    /* XXX push back pkt to IA buffer? */
    gnutls_assert ();
    return GNUTLS_E_SHORT_MEMORY_BUFFER;
}

if (len24 > 0)
{
    uint32_t tmplen = len24;

    len24 = _gnutls_recv_int (session, GNUTLS_INNER_APPLICATION, -1,
data, tmplen);
    if (len24 != tmplen)
    {
        gnutls_assert ();
        /* XXX Correct? */
        return GNUTLS_E_UNEXPECTED_PACKET_LENGTH;
    }
}

return len24;
}

/* Apply the TLS PRF using the TLS/IA inner secret as keying material,
where the seed is the client random concatenated with the server
random concatenated EXTRA of EXTRA_SIZE length (which can be NULL/0
respectively). LABEL and LABEL_SIZE is used as the label. The
result is placed in pre-allocated OUT of OUTSIZE length. */
static int
_gnutls_ia_prf (gnutls_session_t session,
size_t label_size,
const char *label,
size_t extra_size,
const char *extra, size_t outsize, opaque * out)
{
    int ret;
    opaque *seed;
    size_t seedsize = 2 * GNUTLS_RANDOM_SIZE + extra_size;

    seed = gnutls_malloc (seedsize);
    if (!seed)

```

```

    {
        gnutls_assert ();
        return GNUTLS_E_MEMORY_ERROR;
    }

memcpy (seed, session->security_parameters.server_random,
        GNUTLS_RANDOM_SIZE);
memcpy (seed + GNUTLS_RANDOM_SIZE,
        session->security_parameters.client_random, GNUTLS_RANDOM_SIZE);
memcpy (seed + 2 * GNUTLS_RANDOM_SIZE, extra, extra_size);

ret = _gnutls_PRF (session, session->security_parameters.inner_secret,
        GNUTLS_MASTER_SIZE,
        label, label_size, seed, seedsize, outsize, out);

gnutls_free (seed);

return ret;
}

/**
 * gnutls_ia_permute_inner_secret:
 * @session: is a #gnutls_session_t structure.
 * @session_keys_size: Size of generated session keys (0 if none).
 * @session_keys: Generated session keys, used to permute inner secret
 *                (NULL if none).
 *
 *
 * Permute the inner secret using the generated session keys.
 *
 *
 * This can be called in the TLS/IA AVP callback to mix any generated
 * session keys with the TLS/IA inner secret.
 *
 *
 * Return value: Return zero on success, or a negative error code.
 */
int
gnutls_ia_permute_inner_secret (gnutls_session_t session,
        size_t session_keys_size,
        const char *session_keys)
{
return _gnutls_ia_prf (session,
        sizeof (inner_permutation_label) - 1,
        inner_permutation_label,
        session_keys_size,
        session_keys,
        GNUTLS_RANDOM_SIZE,
        session->security_parameters.inner_secret);
}

```

```

/**
 * gnutls_ia_generate_challenge:
 * @session: is a #gnutls_session_t structure.
 * @buffer_size: size of output buffer.
 * @buffer: pre-allocated buffer to contain @buffer_size bytes of output.
 *
 * Generate an application challenge that the client cannot control or
 * predict, based on the TLS/IA inner secret.
 *
 * Return value: Returns 0 on success, or an negative error code.
 */
int
gnutls_ia_generate_challenge (gnutls_session_t session,
                             size_t buffer_size, char *buffer)
{
    return _gnutls_ia_prf (session,
                          sizeof (challenge_label) - 1,
                          challenge_label, 0, NULL, buffer_size, buffer);
}

/**
 * gnutls_ia_extract_inner_secret:
 * @session: is a #gnutls_session_t structure.
 * @buffer: pre-allocated buffer to hold 48 bytes of inner secret.
 *
 * Copy the 48 bytes large inner secret into the specified buffer
 *
 * This function is typically used after the TLS/IA handshake has
 * concluded. The TLS/IA inner secret can be used as input to a PRF
 * to derive session keys. Do not use the inner secret directly as a
 * session key, because for a resumed session that does not include an
 * application phase, the inner secret will be identical to the inner
 * secret in the original session. It is important to include, for
 * example, the client and server randomness when deriving a session
 * key from the inner secret.
 */
void
gnutls_ia_extract_inner_secret (gnutls_session_t session, char *buffer)
{
    memcpy (buffer, session->security_parameters.inner_secret,
           GNUTLS_MASTER_SIZE);
}

/**
 * gnutls_ia_endphase_send:
 * @session: is a #gnutls_session_t structure.
 * @final_p: Set iff this should signal the final phase.
 *

```

```

* Send a TLS/IA end phase message.
*
* In the client, this should only be used to acknowledge an end phase
* message sent by the server.
*
* In the server, this can be called instead of gnutls_ia_send() if
* the server wishes to end an application phase.
*
* Return value: Return 0 on success, or an error code.
**/
int
gnutls_ia_endphase_send (gnutls_session_t session, int final_p)
{
    opaque local_checksum[CHECKSUM_SIZE];
    int client = session->security_parameters.entity == GNUTLS_CLIENT;
    const char *label = client ? client_finished_label : server_finished_label;
    int size_of_label = client ? sizeof (client_finished_label) :
        sizeof (server_finished_label);
    ssize_t len;
    int ret;

    ret = _gnutls_PRF (session, session->security_parameters.inner_secret,
        GNUTLS_MASTER_SIZE, label, size_of_label - 1,
        /* XXX specification unclear on seed. */
        "", 0, CHECKSUM_SIZE, local_checksum);
    if (ret < 0)
        return ret;

    len = _gnutls_send_inner_application
        (session,
        final_p ? GNUTLS_IA_FINAL_PHASE_FINISHED :
        GNUTLS_IA_INTERMEDIATE_PHASE_FINISHED, local_checksum, CHECKSUM_SIZE);

    /* XXX Instead of calling this function over and over...?
    * while (len == GNUTLS_E_AGAIN || len == GNUTLS_E_INTERRUPTED)
    * len = _gnutls_io_write_flush(session);
    */

    if (len < 0)
    {
        gnutls_assert ();
        return len;
    }

    return 0;
}

/**

```



```

* gnutls_ia_verify_endphase:
* @session: is a #gnutls_session_t structure.
* @checksum: 12-byte checksum data, received from gnutls_ia_recv().
*
* Verify TLS/IA end phase checksum data. If verification fails, the
* %GNUTLS_A_INNER_APPLICATION_VERIFICATION alert is sent to the other
* side.
*
* This function is called when gnutls_ia_recv() return
* %GNUTLS_E_WARNING_IA_IPHF_RECEIVED or
* %GNUTLS_E_WARNING_IA_FPHF_RECEIVED.
*
* Return value: Return 0 on successful verification, or an error
* code. If the checksum verification of the end phase message fails,
* %GNUTLS_E_IA_VERIFY_FAILED is returned.
**/
int
gnutls_ia_verify_endphase (gnutls_session_t session, const char *checksum)
{
    char local_checksum[CHECKSUM_SIZE];
    int client = session->security_parameters.entity == GNUTLS_CLIENT;
    const char *label = client ? server_finished_label : client_finished_label;
    int size_of_label = client ? sizeof (server_finished_label) :
        sizeof (client_finished_label);
    int ret;

    ret = _gnutls_PRF (session, session->security_parameters.inner_secret,
        GNUTLS_MASTER_SIZE,
        label, size_of_label - 1,
        "", 0, CHECKSUM_SIZE, local_checksum);
    if (ret < 0)
    {
        gnutls_assert ();
        return ret;
    }

    if (memcmp (local_checksum, checksum, CHECKSUM_SIZE) != 0)
    {
        ret = gnutls_alert_send (session, GNUTLS_AL_FATAL,
            GNUTLS_A_INNER_APPLICATION_VERIFICATION);
        if (ret < 0)
        {
            gnutls_assert ();
            return ret;
        }

        return GNUTLS_E_IA_VERIFY_FAILED;
    }
}

```

```

return 0;
}

/**
 * gnutls_ia_send: Send peer the specified TLS/IA data.
 * @session: is a #gnutls_session_t structure.
 * @data: contains the data to send
 * @sizeofdata: is the length of the data
 *
 * Send TLS/IA application payload data. This function has the
 * similar semantics with send(). The only difference is that it
 * accepts a GnuTLS session, and uses different error codes.
 *
 * The TLS/IA protocol is synchronous, so you cannot send more than
 * one packet at a time. The client always send the first packet.
 *
 * To finish an application phase in the server, use
 * gnutls_ia_endphase_send(). The client cannot end an application
 * phase unilaterally; rather, a client is required to respond with an
 * endphase of its own if gnutls_ia_rcv indicates that the server has
 * sent one.
 *
 * If the EINTR is returned by the internal push function (the default
 * is send()) then %GNUTLS_E_INTERRUPTED will be returned. If
 * %GNUTLS_E_INTERRUPTED or %GNUTLS_E_AGAIN is returned, you must call
 * this function again, with the same parameters; alternatively you
 * could provide a %NULL pointer for data, and 0 for size.
 *
 * Returns: The number of bytes sent, or a negative error code.
 */
ssize_t
gnutls_ia_send (gnutls_session_t session, const char *data, size_t sizeofdata)
{
    ssize_t len;

    len = _gnutls_send_inner_application (session,
        GNUTLS_IA_APPLICATION_PAYLOAD,
        data, sizeofdata);

    return len;
}

/**
 * gnutls_ia_rcv - read data from the TLS/IA protocol
 * @session: is a #gnutls_session_t structure.
 * @data: the buffer that the data will be read into, must hold >= 12 bytes.
 * @sizeofdata: the number of requested bytes, must be >= 12.

```

```

*
* Receive TLS/IA data. This function has the similar semantics with
* recv(). The only difference is that it accepts a GnuTLS session,
* and uses different error codes.
*
* If the server attempt to finish an application phase, this function
* will return %GNUTLS_E_WARNING_IA_IPHF_RECEIVED or
* %GNUTLS_E_WARNING_IA_FPHF_RECEIVED. The caller should then invoke
* gnutls_ia_verify_endphase(), and if it runs the client side, also
* send an endphase message of its own using gnutls_ia_endphase_send.
*
* If EINTR is returned by the internal push function (the default is
* @code{recv()}) then GNUTLS_E_INTERRUPTED will be returned. If
* GNUTLS_E_INTERRUPTED or GNUTLS_E_AGAIN is returned, you must call
* this function again, with the same parameters; alternatively you
* could provide a NULL pointer for data, and 0 for size.
*
* Returns: The number of bytes received. A negative error code is
* returned in case of an error. The
* %GNUTLS_E_WARNING_IA_IPHF_RECEIVED and
* %GNUTLS_E_WARNING_IA_FPHF_RECEIVED errors are returned when an
* application phase finished message has been sent by the server.
**/
ssize_t
gnutls_ia_recv (gnutls_session_t session, char *data, size_t sizeofdata)
{
    gnutls_ia_apptype_t msg_type = 0;
    ssize_t len;

    len = _gnutls_recv_inner_application (session, &msg_type, data, sizeofdata);

    if (msg_type == GNUTLS_IA_INTERMEDIATE_PHASE_FINISHED)
        return GNUTLS_E_WARNING_IA_IPHF_RECEIVED;
    else if (msg_type == GNUTLS_IA_FINAL_PHASE_FINISHED)
        return GNUTLS_E_WARNING_IA_FPHF_RECEIVED;

    return len;
}

/* XXX rewrite the following two functions as state machines, to
   handle EAGAIN/EINTRERRUPTED? just add more problems to callers,
   though. */

static int
_gnutls_ia_client_handshake (gnutls_session_t session)
{
    char *buf = NULL;
    size_t buflen = 0;

```

```

char tmp[1024]; /* XXX */
ssize_t len;
int ret;
const struct gnutls_ia_client_credentials_st *cred =
    _gnutls_get_cred (session->key, GNUTLS_CRD_IA, NULL);

if (cred == NULL)
    return GNUTLS_E_INTERNAL_ERROR;

while (1)
{
    char *avp;
    size_t avplen;

    ret = cred->avp_func (session, cred->avp_ptr,
        buf, buflen, &avp, &avplen);
    if (ret)
    {
        int tmpret;
        tmpret = gnutls_alert_send (session, GNUTLS_AL_FATAL,
            GNUTLS_A_INNER_APPLICATION_FAILURE);
        if (tmpret < 0)
            gnutls_assert ();
        return ret;
    }

    len = gnutls_ia_send (session, avp, avplen);
    gnutls_free (avp);
    if (len < 0)
return len;

    len = gnutls_ia_recv (session, tmp, sizeof (tmp));
    if (len == GNUTLS_E_WARNING_IA_IPHF_RECEIVED ||
len == GNUTLS_E_WARNING_IA_FPHF_RECEIVED)
    {
        ret = gnutls_ia_verify_endphase (session, tmp);
        if (ret < 0)
            return ret;

        ret = gnutls_ia_endphase_send
            (session, len == GNUTLS_E_WARNING_IA_FPHF_RECEIVED);
        if (ret < 0)
            return ret;
    }

    if (len == GNUTLS_E_WARNING_IA_IPHF_RECEIVED)
    {
        buf = NULL;

```

```

    buflen = 0;
    continue;
}
    else if (len == GNUTLS_E_WARNING_IA_FPHF_RECEIVED)
break;

    if (len < 0)
return len;

    buflen = len;
    buf = tmp;
}

return 0;
}

static int
_gnutls_ia_server_handshake (gnutls_session_t session)
{
    gnutls_ia_apptype_t msg_type;
    ssize_t len;
    char buf[1024];
    int ret;
    const struct gnutls_ia_server_credentials_st *cred =
        _gnutls_get_cred (session->key, GNUTLS_CRD_IA, NULL);

    if (cred == NULL)
        return GNUTLS_E_INTERNAL_ERROR;

    do
    {
        char *avp;
        size_t avplen;

        len = gnutls_ia_rcv (session, buf, sizeof (buf));
        if (len == GNUTLS_E_WARNING_IA_IPHF_RECEIVED ||
            len == GNUTLS_E_WARNING_IA_FPHF_RECEIVED)
        {
            ret = gnutls_ia_verify_endphase (session, buf);
            if (ret < 0)
                return ret;
        }

        if (len == GNUTLS_E_WARNING_IA_IPHF_RECEIVED)
            continue;
        else if (len == GNUTLS_E_WARNING_IA_FPHF_RECEIVED)
            break;
    }

```

```

    if (len < 0)
return len;

    avp = NULL;
    avplen = 0;

    ret = cred->avp_func (session, cred->avp_ptr, buf, len, &avp, &avplen);
    if (ret < 0)
{
    int tmpret;
    tmpret = gnutls_alert_send (session, GNUTLS_AL_FATAL,
        GNUTLS_A_INNER_APPLICATION_FAILURE);
    if (tmpret < 0)
        gnutls_assert ();
    return ret;
}

    msg_type = ret;

    if (msg_type != GNUTLS_IA_APPLICATION_PAYLOAD)
{
    ret = gnutls_ia_endphase_send (session, msg_type ==
        GNUTLS_IA_FINAL_PHASE_FINISHED);
    if (ret < 0)
        return ret;
}
    else
{
    len = gnutls_ia_send (session, avp, avplen);
    gnutls_free (avp);
    if (len < 0)
        return len;
}
}
while (1);

return 0;
}

/**
 * gnutls_ia_handshake_p:
 * @session: is a #gnutls_session_t structure.
 *
 * Predicate to be used after gnutls_handshake() to decide whether to
 * invoke gnutls_ia_handshake(). Usable by both clients and servers.
 *
 * Return value: non-zero if TLS/IA handshake is expected, zero
 * otherwise.

```

```

**/
int
gnutls_ia_handshake_p (gnutls_session_t session)
{
    tls_ext_st *ext = &session->security_parameters.extensions;

    /* Either local side or peer doesn't do TLS/IA: don't do IA */

    if (!ext->gnutls_ia_enable || !ext->gnutls_ia_peer_enable)
        return 0;

    /* Not resuming or we don't allow skipping on resumption locally: do IA */

    if (!ext->gnutls_ia_allowskip || !gnutls_session_is_resumed (session))
        return 1;

    /* If we're resuming and we and the peer both allow skipping on resumption:
       * don't do IA */

    return !ext->gnutls_ia_peer_allowskip;
}

/**
 * gnutls_ia_handshake:
 * @session: is a #gnutls_session_t structure.
 *
 * Perform a TLS/IA handshake. This should be called after
 * gnutls_handshake() iff gnutls_ia_handshake_p().
 *
 * Returns: On success, %GNUTLS_E_SUCCESS (zero) is returned,
 * otherwise an error code is returned.
 */
int
gnutls_ia_handshake (gnutls_session_t session)
{
    int ret;

    if (session->security_parameters.entity == GNUTLS_CLIENT)
        ret = _gnutls_ia_client_handshake (session);
    else
        ret = _gnutls_ia_server_handshake (session);

    return ret;
}

/**
 * gnutls_ia_allocate_client_credentials - Used to allocate an gnutls_ia_server_credentials_t structure

```

```

* @sc: is a pointer to a #gnutls_ia_server_credentials_t structure.
*
* This structure is complex enough to manipulate directly thus this
* helper function is provided in order to allocate it.
*
* Adding this credential to a session will enable TLS/IA, and will
* require an Application Phase after the TLS handshake (if the server
* support TLS/IA). Use gnutls_ia_require_inner_phase() to toggle the
* TLS/IA mode.
*
* Returns: On success, %GNUTLS_E_SUCCESS (0) is returned, otherwise
* an error code is returned.
**/
int
gnutls_ia_allocate_client_credentials (gnutls_ia_client_credentials_t * sc)
{
    *sc = gnutls_malloc (1, sizeof (**sc));

    if (*sc == NULL)
        return GNUTLS_E_MEMORY_ERROR;

    return 0;
}

/**
* gnutls_ia_free_client_credentials - Used to free an allocated #gnutls_ia_client_credentials_t structure
* @sc: is a #gnutls_ia_client_credentials_t structure.
*
* This structure is complex enough to manipulate directly thus this
* helper function is provided in order to free (deallocate) it.
*
**/
void
gnutls_ia_free_client_credentials (gnutls_ia_client_credentials_t sc)
{
    gnutls_free (sc);
}

/**
* gnutls_ia_set_client_avp_function - Used to set a AVP callback
* @cred: is a #gnutls_ia_client_credentials_t structure.
* @avp_func: is the callback function
*
* Set the TLS/IA AVP callback handler used for the session.
*
* The AVP callback is called to process AVPs received from the
* server, and to get a new AVP to send to the server.
*

```



```

* The callback's function form is:
* int (*avp_func) (gnutls_session_t session, void *ptr,
*     const char *last, size_t lastlen,
*     char **next, size_t *nextlen);
*
* The @session parameter is the #gnutls_session_t structure
* corresponding to the current session. The @ptr parameter is the
* application hook pointer, set through
* gnutls_ia_set_client_avp_ptr(). The AVP received from the server
* is present in @last of @lastlen size, which will be %NULL on the
* first invocation. The newly allocated output AVP to send to the
* server should be placed in *@next of *@nextlen size.
*
* The callback may invoke gnutls_ia_permute_inner_secret() to mix any
* generated session keys with the TLS/IA inner secret.
*
* Return 0 (%GNUTLS_IA_APPLICATION_PAYLOAD) on success, or a negative
* error code to abort the TLS/IA handshake.
*
* Note that the callback must use allocate the @next parameter using
* gnutls_malloc(), because it is released via gnutls_free() by the
* TLS/IA handshake function.
**/
void
gnutls_ia_set_client_avp_function (gnutls_ia_client_credentials_t cred,
    gnutls_ia_avp_func avp_func)
{
    cred->avp_func = avp_func;
}

/**
* gnutls_ia_set_client_avp_ptr - Sets a pointer to be sent to TLS/IA callback
* @cred: is a #gnutls_ia_client_credentials_t structure.
* @ptr: is the pointer
*
* Sets the pointer that will be provided to the TLS/IA callback
* function as the first argument.
**/
void
gnutls_ia_set_client_avp_ptr (gnutls_ia_client_credentials_t cred, void *ptr)
{
    cred->avp_ptr = ptr;
}

/**
* gnutls_ia_get_client_avp_ptr - Returns the pointer which is sent to TLS/IA callback
* @cred: is a #gnutls_ia_client_credentials_t structure.

```

```

*
* Returns the pointer that will be provided to the TLS/IA callback
* function as the first argument.
*
* Returns: The client callback data pointer.
**/
void *
gnutls_ia_get_client_avp_ptr (gnutls_ia_client_credentials_t cred)
{
    return cred->avp_ptr;
}

/**
* gnutls_ia_allocate_server_credentials - Used to allocate an gnutls_ia_server_credentials_t structure
* @sc: is a pointer to a #gnutls_ia_server_credentials_t structure.
*
* This structure is complex enough to manipulate directly thus this
* helper function is provided in order to allocate it.
*
* Adding this credential to a session will enable TLS/IA, and will
* require an Application Phase after the TLS handshake (if the client
* support TLS/IA). Use gnutls_ia_require_inner_phase() to toggle the
* TLS/IA mode.
*
* Returns: On success, %GNUTLS_E_SUCCESS (0) is returned, otherwise
* an error code is returned.
**/
int
gnutls_ia_allocate_server_credentials (gnutls_ia_server_credentials_t * sc)
{
    *sc = gnutls_calloc (1, sizeof (**sc));

    if (*sc == NULL)
        return GNUTLS_E_MEMORY_ERROR;

    return 0;
}

/**
* gnutls_ia_free_server_credentials - Used to free an allocated #gnutls_ia_server_credentials_t structure
* @sc: is a #gnutls_ia_server_credentials_t structure.
*
* This structure is complex enough to manipulate directly thus this
* helper function is provided in order to free (deallocate) it.
*
**/
void
gnutls_ia_free_server_credentials (gnutls_ia_server_credentials_t sc)

```

```

{
    gnutls_free (sc);
}

/**
 * gnutls_ia_set_server_credentials_function - Used to set a AVP callback
 * @cred: is a #gnutls_ia_server_credentials_t structure.
 * @func: is the callback function
 *
 * Set the TLS/IA AVP callback handler used for the session.
 *
 * The callback's function form is:
 * int (*avp_func) (gnutls_session_t session, void *ptr,
 *                  const char *last, size_t lastlen,
 *                  char **next, size_t *nextlen);
 *
 * The @session parameter is the #gnutls_session_t structure
 * corresponding to the current session. The @ptr parameter is the
 * application hook pointer, set through
 * gnutls_ia_set_server_avp_ptr(). The AVP received from the client
 * is present in @last of @lastlen size. The newly allocated output
 * AVP to send to the client should be placed in *@next of *@nextlen
 * size.
 *
 * The AVP callback is called to process incoming AVPs from the
 * client, and to get a new AVP to send to the client. It can also be
 * used to instruct the TLS/IA handshake to do go into the
 * Intermediate or Final phases. It return a negative error code, or
 * a #gnutls_ia_apptype_t message type.
 *
 * The callback may invoke gnutls_ia_permute_inner_secret() to mix any
 * generated session keys with the TLS/IA inner secret.
 *
 * Specifically, return %GNUTLS_IA_APPLICATION_PAYLOAD (0) to send
 * another AVP to the client, return
 * %GNUTLS_IA_INTERMEDIATE_PHASE_FINISHED (1) to indicate that an
 * IntermediatePhaseFinished message should be sent, and return
 * %GNUTLS_IA_FINAL_PHASE_FINISHED (2) to indicate that an
 * FinalPhaseFinished message should be sent. In the last two cases,
 * the contents of the @next and @nextlen parameter is not used.
 *
 * Note that the callback must use allocate the @next parameter using
 * gnutls_malloc(), because it is released via gnutls_free() by the
 * TLS/IA handshake function.
 */
void
gnutls_ia_set_server_avp_function (gnutls_ia_server_credentials_t cred,
                                   gnutls_ia_avp_func avp_func)

```

```

{
    cred->avp_func = avp_func;
}

/**
 * gnutls_ia_set_server_avp_ptr - Sets a pointer to be sent to TLS/IA callback
 * @cred: is a #gnutls_ia_client_credentials_t structure.
 * @ptr: is the pointer
 *
 * Sets the pointer that will be provided to the TLS/IA callback
 * function as the first argument.
 */
void
gnutls_ia_set_server_avp_ptr (gnutls_ia_server_credentials_t cred, void *ptr)
{
    cred->avp_ptr = ptr;
}

/**
 * gnutls_ia_get_server_avp_ptr - Returns the pointer which is sent to TLS/IA callback
 * @cred: is a #gnutls_ia_client_credentials_t structure.
 *
 * Returns the pointer that will be provided to the TLS/IA callback
 * function as the first argument.
 *
 * Returns: The server callback data pointer.
 */
void *
gnutls_ia_get_server_avp_ptr (gnutls_ia_server_credentials_t cred)
{
    return cred->avp_ptr;
}

/**
 * gnutls_ia_enable - Indicate willingness for TLS/IA application phases
 * @session: is a #gnutls_session_t structure.
 * @allow_skip_on_resume: non-zero if local party allows to skip the
 *   TLS/IA application phases for a resumed session.
 *
 * Specify whether we must advertise support for the TLS/IA extension
 * during the handshake.
 *
 * At the client side, we always advertise TLS/IA if gnutls_ia_enable
 * was called before the handshake; at the server side, we also
 * require that the client has advertised that it wants to run TLS/IA
 * before including the advertisement, as required by the protocol.
 *
 * Similarly, at the client side we always advertise that we allow

```

```

* TLS/IA to be skipped for resumed sessions if @allow_skip_on_resume
* is non-zero; at the server side, we also require that the session
* is indeed resumable and that the client has also advertised that it
* allows TLS/IA to be skipped for resumed sessions.
*
* After the TLS handshake, call gnutls_ia_handshake_p() to find out
* whether both parties agreed to do a TLS/IA handshake, before
* calling gnutls_ia_handshake() or one of the lower level gnutls_ia_*
* functions.
**/
void
gnutls_ia_enable (gnutls_session_t session, int allow_skip_on_resume)
{
    session->security_parameters.extensions.gnutls_ia_enable = 1;
    session->security_parameters.extensions.gnutls_ia_allowskip =
        allow_skip_on_resume;
}
/*
* Copyright (C) 2004, 2005, 2006, 2008 Free Software Foundation
* Copyright (c) 2002 Andrew McDonald <andrew@mcdonald.org.uk>
*
* This file is part of GNUTLS-EXTRA.
*
* GNUTLS-EXTRA is free software: you can redistribute it and/or modify
* it under the terms of the GNU General Public License as published by
* the Free Software Foundation, either version 3 of the License, or
* (at your option) any later version.
*
* GNUTLS-EXTRA is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program. If not, see <http://www.gnu.org/licenses/>.
*/

#include <config.h>

#include <gnutls/gnutls.h>
#include <openssl_compat.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <gnutls/openssl.h>
#include "../lib/gnutls_int.h"
#include "../lib/random.h"
#include "../lib/gnutls_hash_int.h"

```

```

/* GnuLib re-defines shutdown on mingw. We only use it as a variable
   name, so restore the original name. */
#undef shutdown

/* XXX: See lib/gnutls_int.h. */
#define GNUTLS_POINTER_TO_INT(_) ((int) GNUTLS_POINTER_TO_INT_CAST (_))
#define GNUTLS_INT_TO_POINTER(_) ((void*) GNUTLS_POINTER_TO_INT_CAST (_))

/* WARNING: Error functions aren't currently thread-safe */

static int last_error = 0;

/* Library initialisation functions */

int
SSL_library_init (void)
{
    gnutls_global_init ();
    /* NB: we haven't got anywhere to call gnutls_global_deinit() */
    return 1;
}

void
OpenSSL_add_all_algorithms (void)
{
}

/* SSL_CTX structure handling */

SSL_CTX *
SSL_CTX_new (SSL_METHOD * method)
{
    SSL_CTX *ctx;

    ctx = (SSL_CTX *) calloc (1, sizeof (SSL_CTX));
    ctx->method = method;

    return ctx;
}

void
SSL_CTX_free (SSL_CTX * ctx)
{
    free (ctx->method);
    free (ctx);
}

```

```

int
SSL_CTX_set_default_verify_paths (SSL_CTX * ctx)
{
    return 0;
}

int
SSL_CTX_use_certificate_file (SSL_CTX * ctx, const char *certfile, int type)
{
    ctx->certfile = (char *) calloc (1, strlen (certfile) + 1);
    if (!ctx->certfile)
        return -1;
    memcpy (ctx->certfile, certfile, strlen (certfile));

    ctx->certfile_type = type;

    return 1;
}

int
SSL_CTX_use_PrivateKey_file (SSL_CTX * ctx, const char *keyfile, int type)
{
    ctx->keyfile = (char *) calloc (1, strlen (keyfile) + 1);
    if (!ctx->keyfile)
        return -1;
    memcpy (ctx->keyfile, keyfile, strlen (keyfile));

    ctx->keyfile_type = type;

    return 1;
}

void
SSL_CTX_set_verify (SSL_CTX * ctx, int verify_mode,
    int (*verify_callback) (int, X509_STORE_CTX *))
{
    ctx->verify_mode = verify_mode;
    ctx->verify_callback = verify_callback;
}

unsigned long
SSL_CTX_set_options (SSL_CTX * ctx, unsigned long options)
{
    return (ctx->options |= options);
}

```

```

long
SSL_CTX_set_mode (SSL_CTX * ctx, long mode)
{
    return 0;
}

int
SSL_CTX_set_cipher_list (SSL_CTX * ctx, const char *list)
{
    /* FIXME: ignore this for the moment */
    /* We're going to have to parse the "list" string to do this */
    /* It is a string, which in its simplest form is something like
       "DES-CBC3-SHA:IDEA-CBC-MD5", but can be rather more complicated
       (see OpenSSL's ciphers(1) manpage for details) */

    return 1;
}

/* SSL_CTX statistics */

long
SSL_CTX_sess_number (SSL_CTX * ctx)
{
    return 0;
}

long
SSL_CTX_sess_connect (SSL_CTX * ctx)
{
    return 0;
}

long
SSL_CTX_sess_connect_good (SSL_CTX * ctx)
{
    return 0;
}

long
SSL_CTX_sess_connect_renegotiate (SSL_CTX * ctx)
{
    return 0;
}

long
SSL_CTX_sess_accept (SSL_CTX * ctx)
{

```



```

return 0;
}

long
SSL_CTX_sess_accept_good (SSL_CTX * ctx)
{
return 0;
}

long
SSL_CTX_sess_accept_renegotiate (SSL_CTX * ctx)
{
return 0;
}

long
SSL_CTX_sess_hits (SSL_CTX * ctx)
{
return 0;
}

long
SSL_CTX_sess_misses (SSL_CTX * ctx)
{
return 0;
}

long
SSL_CTX_sess_timeouts (SSL_CTX * ctx)
{
return 0;
}

/* SSL structure handling */

SSL *
SSL_new (SSL_CTX * ctx)
{
SSL *ssl;
int err;

ssl = (SSL *) calloc (1, sizeof (SSL));
if (!ssl)
return NULL;

err = gnutls_certificate_allocate_credentials (&ssl->gnutls_cred);

```

```

if (err < 0)
{
    last_error = err;
    free (ssl);
    return NULL;
}

gnutls_init (&ssl->gnutls_state, ctx->method->connend);

gnutls_protocol_set_priority (ssl->gnutls_state,
    ctx->method->protocol_priority);
gnutls_cipher_set_priority (ssl->gnutls_state,
    ctx->method->cipher_priority);
gnutls_compression_set_priority (ssl->gnutls_state,
    ctx->method->comp_priority);
gnutls_kx_set_priority (ssl->gnutls_state, ctx->method->kx_priority);
gnutls_mac_set_priority (ssl->gnutls_state, ctx->method->mac_priority);

gnutls_credentials_set (ssl->gnutls_state, GNUTLS_CRD_CERTIFICATE,
    ssl->gnutls_cred);
if (ctx->certfile)
    gnutls_certificate_set_x509_trust_file (ssl->gnutls_cred,
        ctx->certfile,
        ctx->certfile_type);
if (ctx->keyfile)
    gnutls_certificate_set_x509_key_file (ssl->gnutls_cred,
        ctx->certfile, ctx->keyfile,
        ctx->keyfile_type);
ssl->ctx = ctx;
ssl->verify_mode = ctx->verify_mode;
ssl->verify_callback = ctx->verify_callback;

ssl->options = ctx->options;

ssl->rfd = (gnutls_transport_ptr_t) - 1;
ssl->wfd = (gnutls_transport_ptr_t) - 1;

return ssl;
}

void
SSL_free (SSL * ssl)
{
    gnutls_certificate_free_credentials (ssl->gnutls_cred);
    gnutls_deinit (ssl->gnutls_state);
    free (ssl);
}

```

```

void
SSL_load_error_strings (void)
{
}

int
SSL_get_error (SSL * ssl, int ret)
{
    if (ret > 0)
        return SSL_ERROR_NONE;

    return SSL_ERROR_ZERO_RETURN;
}

int
SSL_set_fd (SSL * ssl, int fd)
{
    gnutls_transport_set_ptr (ssl->gnutls_state, GNUTLS_INT_TO_POINTER (fd));
    return 1;
}

int
SSL_set_rfd (SSL * ssl, int fd)
{
    ssl->rfd = GNUTLS_INT_TO_POINTER (fd);

    if (ssl->wfd != (gnutls_transport_ptr_t) - 1)
        gnutls_transport_set_ptr2 (ssl->gnutls_state, ssl->rfd, ssl->wfd);

    return 1;
}

int
SSL_set_wfd (SSL * ssl, int fd)
{
    ssl->wfd = GNUTLS_INT_TO_POINTER (fd);

    if (ssl->rfd != (gnutls_transport_ptr_t) - 1)
        gnutls_transport_set_ptr2 (ssl->gnutls_state, ssl->rfd, ssl->wfd);

    return 1;
}

void
SSL_set_bio (SSL * ssl, BIO * rbio, BIO * wbio)
{
    gnutls_transport_set_ptr2 (ssl->gnutls_state, rbio->fd, wbio->fd);
    /* free(BIO); ? */
}

```

```

}

void
SSL_set_connect_state (SSL * ssl)
{
}

int
SSL_pending (SSL * ssl)
{
return gnutls_record_check_pending (ssl->gnutls_state);
}

void
SSL_set_verify (SSL * ssl, int verify_mode,
int (*verify_callback) (int, X509_STORE_CTX *))
{
ssl->verify_mode = verify_mode;
ssl->verify_callback = verify_callback;
}

const X509 *
SSL_get_peer_certificate (SSL * ssl)
{
const gnutls_datum_t *cert_list;
int cert_list_size = 0;

cert_list = gnutls_certificate_get_peers (ssl->gnutls_state,
&cert_list_size);

return cert_list;
}

/* SSL connection open/close/read/write functions */

int
SSL_connect (SSL * ssl)
{
X509_STORE_CTX *store;
int cert_list_size = 0;
int err;
int i, j;
int x_priority[GNUTLS_MAX_ALGORITHM_NUM];
/* take options into account before connecting */

memset (x_priority, 0, sizeof (x_priority));
if (ssl->options & SSL_OP_NO_TLSv1)
{

```

```

    for (i = 0, j = 0;
         i < GNUTLS_MAX_ALGORITHM_NUM && x_priority[i] != 0; i++, j++)
    {
        if (ssl->ctx->method->protocol_priority[j] == GNUTLS_TLS1)
            j++;
        else
            x_priority[i] = ssl->ctx->method->protocol_priority[j];
    }
    if (i < GNUTLS_MAX_ALGORITHM_NUM)
        x_priority[i] = 0;
    gnutls_protocol_set_priority (ssl->gnutls_state,
                                  ssl->ctx->method->protocol_priority);
}

err = gnutls_handshake (ssl->gnutls_state);
ssl->last_error = err;

if (err < 0)
{
    last_error = err;
    return 0;
}

store = (X509_STORE_CTX *) calloc (1, sizeof (X509_STORE_CTX));
store->ssl = ssl;
store->cert_list = gnutls_certificate_get_peers (ssl->gnutls_state,
                                                  &cert_list_size);

if (ssl->verify_callback)
{
    ssl->verify_callback (1 /*FIXME*/, store);
}
ssl->state = SSL_ST_OK;

err = store->error;
free (store);

/* FIXME: deal with error from callback */

return 1;
}

int
SSL_accept (SSL * ssl)
{
    X509_STORE_CTX *store;
    int cert_list_size = 0;
    int err;

```

```

int i, j;
int x_priority[GNUTLS_MAX_ALGORITHM_NUM];
/* take options into account before accepting */

memset (x_priority, 0, sizeof (x_priority));
if (ssl->options & SSL_OP_NO_TLSv1)
{
    for (i = 0, j = 0;
        i < GNUTLS_MAX_ALGORITHM_NUM && x_priority[i] != 0; i++, j++)
    {
        if (ssl->ctx->method->protocol_priority[j] == GNUTLS_TLS1)
            j++;
        else
            x_priority[i] = ssl->ctx->method->protocol_priority[j];
    }
    if (i < GNUTLS_MAX_ALGORITHM_NUM)
x_priority[i] = 0;
    gnutls_protocol_set_priority (ssl->gnutls_state,
        ssl->ctx->method->protocol_priority);
}

/* FIXME: dh params, do we want client cert? */

err = gnutls_handshake (ssl->gnutls_state);
ssl->last_error = err;

if (err < 0)
{
    last_error = err;
    return 0;
}

store = (X509_STORE_CTX *) calloc (1, sizeof (X509_STORE_CTX));
store->ssl = ssl;
store->cert_list = gnutls_certificate_get_peers (ssl->gnutls_state,
    &cert_list_size);

if (ssl->verify_callback)
{
    ssl->verify_callback (1 /*FIXME*/, store);
}
ssl->state = SSL_ST_OK;

err = store->error;
free (store);

/* FIXME: deal with error from callback */

```

```

return 1;
}

int
SSL_shutdown (SSL * ssl)
{
if (!ssl->shutdown)
{
gnutls_bye (ssl->gnutls_state, GNUTLS_SHUT_WR);
ssl->shutdown++;
}
else
{
gnutls_bye (ssl->gnutls_state, GNUTLS_SHUT_RDWR);
ssl->shutdown++;
}

/* FIXME */
return 1;
}

int
SSL_read (SSL * ssl, void *buf, int len)
{
int ret;

ret = gnutls_record_recv (ssl->gnutls_state, buf, len);
ssl->last_error = ret;

if (ret < 0)
{
last_error = ret;
return 0;
}

return ret;
}

int
SSL_write (SSL * ssl, const void *buf, int len)
{
int ret;

ret = gnutls_record_send (ssl->gnutls_state, buf, len);
ssl->last_error = ret;

if (ret < 0)
{

```

```

    last_error = ret;
    return 0;
}

return ret;
}

int
SSL_want (SSL * ssl)
{
    return SSL_NOTHING;
}

/* SSL_METHOD functions */

SSL_METHOD *
SSLv23_client_method (void)
{
    SSL_METHOD *m;
    m = (SSL_METHOD *) calloc (1, sizeof (SSL_METHOD));
    if (!m)
        return NULL;

    m->protocol_priority[0] = GNUTLS_TLS1;
    m->protocol_priority[1] = GNUTLS_SSL3;
    m->protocol_priority[2] = 0;

    m->cipher_priority[0] = GNUTLS_CIPHER_AES_128_CBC;
    m->cipher_priority[1] = GNUTLS_CIPHER_3DES_CBC;
    m->cipher_priority[2] = GNUTLS_CIPHER_AES_256_CBC;
#ifdef ENABLE_CAMELLIA
    m->cipher_priority[3] = GNUTLS_CIPHER_CAMELLIA_128_CBC;
    m->cipher_priority[4] = GNUTLS_CIPHER_CAMELLIA_256_CBC;
    m->cipher_priority[5] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[6] = 0;
#else
    m->cipher_priority[3] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[4] = 0;
#endif

    m->comp_priority[0] = GNUTLS_COMP_ZLIB;
    m->comp_priority[1] = GNUTLS_COMP_NULL;
    m->comp_priority[2] = 0;

    m->kx_priority[0] = GNUTLS_KX_DHE_RSA;
    m->kx_priority[1] = GNUTLS_KX_RSA;
    m->kx_priority[2] = GNUTLS_KX_DHE_DSS;

```



```

m->kx_priority[3] = 0;

m->mac_priority[0] = GNUTLS_MAC_SHA1;
m->mac_priority[1] = GNUTLS_MAC_MD5;
m->mac_priority[2] = 0;

m->connend = GNUTLS_CLIENT;

return m;
}

SSL_METHOD *
SSLv23_server_method (void)
{
    SSL_METHOD *m;
    m = (SSL_METHOD *) calloc (1, sizeof (SSL_METHOD));
    if (!m)
        return NULL;

    m->protocol_priority[0] = GNUTLS_TLS1;
    m->protocol_priority[1] = GNUTLS_SSL3;
    m->protocol_priority[2] = 0;

    m->cipher_priority[0] = GNUTLS_CIPHER_AES_128_CBC;
    m->cipher_priority[1] = GNUTLS_CIPHER_3DES_CBC;
    m->cipher_priority[2] = GNUTLS_CIPHER_AES_256_CBC;
#ifdef ENABLE_CAMELLIA
    m->cipher_priority[3] = GNUTLS_CIPHER_CAMELLIA_128_CBC;
    m->cipher_priority[4] = GNUTLS_CIPHER_CAMELLIA_256_CBC;
    m->cipher_priority[5] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[6] = 0;
#else
    m->cipher_priority[3] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[4] = 0;
#endif

    m->comp_priority[0] = GNUTLS_COMP_ZLIB;
    m->comp_priority[1] = GNUTLS_COMP_NULL;
    m->comp_priority[2] = 0;

    m->kx_priority[0] = GNUTLS_KX_DHE_RSA;
    m->kx_priority[1] = GNUTLS_KX_RSA;
    m->kx_priority[2] = GNUTLS_KX_DHE_DSS;
    m->kx_priority[3] = 0;

    m->mac_priority[0] = GNUTLS_MAC_SHA1;
    m->mac_priority[1] = GNUTLS_MAC_MD5;
    m->mac_priority[2] = 0;

```

```

m->connend = GNUTLS_SERVER;

return m;
}

SSL_METHOD *
SSLv3_client_method (void)
{
    SSL_METHOD *m;
    m = (SSL_METHOD *) calloc (1, sizeof (SSL_METHOD));
    if (!m)
        return NULL;

    m->protocol_priority[0] = GNUTLS_SSL3;
    m->protocol_priority[2] = 0;

    m->cipher_priority[1] = GNUTLS_CIPHER_3DES_CBC;
    m->cipher_priority[2] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[3] = 0;

    m->comp_priority[0] = GNUTLS_COMP_ZLIB;
    m->comp_priority[1] = GNUTLS_COMP_NULL;
    m->comp_priority[2] = 0;

    m->kx_priority[0] = GNUTLS_KX_DHE_RSA;
    m->kx_priority[1] = GNUTLS_KX_RSA;
    m->kx_priority[2] = GNUTLS_KX_DHE_DSS;
    m->kx_priority[3] = 0;

    m->mac_priority[0] = GNUTLS_MAC_SHA1;
    m->mac_priority[1] = GNUTLS_MAC_MD5;
    m->mac_priority[2] = 0;

    m->connend = GNUTLS_CLIENT;

    return m;
}

SSL_METHOD *
SSLv3_server_method (void)
{
    SSL_METHOD *m;
    m = (SSL_METHOD *) calloc (1, sizeof (SSL_METHOD));
    if (!m)
        return NULL;

    m->protocol_priority[0] = GNUTLS_SSL3;

```

```

m->protocol_priority[2] = 0;

m->cipher_priority[1] = GNUTLS_CIPHER_3DES_CBC;
m->cipher_priority[2] = GNUTLS_CIPHER_ARCFOUR_128;
m->cipher_priority[3] = 0;

m->comp_priority[0] = GNUTLS_COMP_ZLIB;
m->comp_priority[1] = GNUTLS_COMP_NULL;
m->comp_priority[2] = 0;

m->kx_priority[0] = GNUTLS_KX_DHE_RSA;
m->kx_priority[1] = GNUTLS_KX_RSA;
m->kx_priority[2] = GNUTLS_KX_DHE_DSS;
m->kx_priority[3] = 0;

m->mac_priority[0] = GNUTLS_MAC_SHA1;
m->mac_priority[1] = GNUTLS_MAC_MD5;
m->mac_priority[2] = 0;

m->connend = GNUTLS_SERVER;

return m;
}

SSL_METHOD *
TLSv1_client_method (void)
{
    SSL_METHOD *m;
    m = (SSL_METHOD *) calloc (1, sizeof (SSL_METHOD));
    if (!m)
        return NULL;

    m->protocol_priority[0] = GNUTLS_TLS1;
    m->protocol_priority[1] = 0;

    m->cipher_priority[0] = GNUTLS_CIPHER_AES_128_CBC;
    m->cipher_priority[1] = GNUTLS_CIPHER_3DES_CBC;
    m->cipher_priority[2] = GNUTLS_CIPHER_AES_256_CBC;
#ifdef ENABLE_CAMELLIA
    m->cipher_priority[3] = GNUTLS_CIPHER_CAMELLIA_128_CBC;
    m->cipher_priority[4] = GNUTLS_CIPHER_CAMELLIA_256_CBC;
    m->cipher_priority[5] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[6] = 0;
#else
    m->cipher_priority[3] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[4] = 0;
#endif
}

```

```

m->comp_priority[0] = GNUTLS_COMP_ZLIB;
m->comp_priority[1] = GNUTLS_COMP_NULL;
m->comp_priority[2] = 0;

m->kx_priority[0] = GNUTLS_KX_DHE_RSA;
m->kx_priority[1] = GNUTLS_KX_RSA;
m->kx_priority[2] = GNUTLS_KX_DHE_DSS;
m->kx_priority[3] = 0;

m->mac_priority[0] = GNUTLS_MAC_SHA1;
m->mac_priority[1] = GNUTLS_MAC_MD5;
m->mac_priority[2] = 0;

m->connend = GNUTLS_CLIENT;

return m;
}

SSL_METHOD *
TLSv1_server_method (void)
{
    SSL_METHOD *m;
    m = (SSL_METHOD *) calloc (1, sizeof (SSL_METHOD));
    if (!m)
        return NULL;

    m->protocol_priority[0] = GNUTLS_TLS1;
    m->protocol_priority[1] = 0;

    m->cipher_priority[0] = GNUTLS_CIPHER_AES_128_CBC;
    m->cipher_priority[1] = GNUTLS_CIPHER_3DES_CBC;
    m->cipher_priority[2] = GNUTLS_CIPHER_AES_256_CBC;
#ifdef ENABLE_CAMELLIA
    m->cipher_priority[3] = GNUTLS_CIPHER_CAMELLIA_128_CBC;
    m->cipher_priority[4] = GNUTLS_CIPHER_CAMELLIA_256_CBC;
    m->cipher_priority[5] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[6] = 0;
#else
    m->cipher_priority[3] = GNUTLS_CIPHER_ARCFOUR_128;
    m->cipher_priority[4] = 0;
#endif

    m->comp_priority[0] = GNUTLS_COMP_ZLIB;
    m->comp_priority[1] = GNUTLS_COMP_NULL;
    m->comp_priority[2] = 0;

    m->kx_priority[0] = GNUTLS_KX_DHE_RSA;
    m->kx_priority[1] = GNUTLS_KX_RSA;

```

```

m->kx_priority[2] = GNUTLS_KX_DHE_DSS;
m->kx_priority[3] = 0;

m->mac_priority[0] = GNUTLS_MAC_SHA1;
m->mac_priority[1] = GNUTLS_MAC_MD5;
m->mac_priority[2] = 0;

m->connend = GNUTLS_SERVER;

return m;
}

/* SSL_CIPHER functions */

SSL_CIPHER *
SSL_get_current_cipher (SSL * ssl)
{
    if (!ssl)
        return NULL;

    ssl->ciphersuite.version = gnutls_protocol_get_version (ssl->gnutls_state);
    ssl->ciphersuite.cipher = gnutls_cipher_get (ssl->gnutls_state);
    ssl->ciphersuite.kx = gnutls_kx_get (ssl->gnutls_state);
    ssl->ciphersuite.mac = gnutls_mac_get (ssl->gnutls_state);
    ssl->ciphersuite.compression = gnutls_compression_get (ssl->gnutls_state);
    ssl->ciphersuite.cert = gnutls_certificate_type_get (ssl->gnutls_state);

    return &(ssl->ciphersuite);
}

const char *
SSL_CIPHER_get_name (SSL_CIPHER * cipher)
{
    if (!cipher)
        return ("NONE");

    return gnutls_cipher_suite_get_name (cipher->kx,
        cipher->cipher, cipher->mac);
}

int
SSL_CIPHER_get_bits (SSL_CIPHER * cipher, int *bits)
{
    int bit_result;

    if (!cipher)
        return 0;

```

```

bit_result = (8 * gnutls_cipher_get_key_size (cipher->cipher));

if (bits)
    *bits = bit_result;

return bit_result;
}

const char *
SSL_CIPHER_get_version (SSL_CIPHER * cipher)
{
    const char *ret;

    if (!cipher)
        return ("(NONE)");

    ret = gnutls_protocol_get_name (cipher->version);
    if (ret)
        return ret;

    return ("unknown");
}

char *
SSL_CIPHER_description (SSL_CIPHER * cipher, char *buf, int size)
{
    char *tmpbuf;
    int tmpsize;
    int local_alloc;

    if (buf)
    {
        tmpbuf = buf;
        tmpsize = size;
        local_alloc = 0;
    }
    else
    {
        tmpbuf = (char *) malloc (128);
        tmpsize = 128;
        local_alloc = 1;
    }

    if (snprintf (tmpbuf, tmpsize, "%s %s %s %s",
        gnutls_protocol_get_name (cipher->version),
        gnutls_kx_get_name (cipher->kx),
        gnutls_cipher_get_name (cipher->cipher),

```

```

gnutls_mac_get_name (cipher->mac) == -1)
{
    if (local_alloc)
free (tmpbuf);
    return (char*) "Buffer too small";
}

return tmpbuf;
}

/* X509 functions */

X509_NAME *
X509_get_subject_name (const X509 * cert)
{
    gnutls_x509_dn *dn;
    dn = (gnutls_x509_dn *) calloc (1, sizeof (gnutls_x509_dn));
    if (gnutls_x509_extract_certificate_dn (cert, dn) < 0)
    {
        free (dn);
        return NULL;
    }
    return dn;
}

X509_NAME *
X509_get_issuer_name (const X509 * cert)
{
    gnutls_x509_dn *dn;
    dn = (gnutls_x509_dn *) calloc (1, sizeof (gnutls_x509_dn));
    if (gnutls_x509_extract_certificate_issuer_dn (cert, dn) < 0)
    {
        free (dn);
        return NULL;
    }
    return dn;
}

char *
X509_NAME_oneline (gnutls_x509_dn * name, char *buf, int len)
{
    memset (buf, 0, len);
    if (!buf)
        return NULL;

    snprintf (buf, len - 1,
        "C=%s, ST=%s, L=%s, O=%s, OU=%s, CN=%s/Email=%s",

```

```

    name->country, name->state_or_province_name,
    name->locality_name, name->organization,
    name->organizational_unit_name, name->common_name, name->email);
return buf;
}

```

```

void
X509_free (const X509 * cert)
{
    /* only get certificates as const items */
}

```

```

/* BIO functions */

```

```

void
BIO_get_fd (gnutls_session_t gnutls_state, int *fd)
{
    gnutls_transport_ptr_t tmp = gnutls_transport_get_ptr (gnutls_state);
    *fd = GNUTLS_POINTER_TO_INT (tmp);
}

```

```

BIO *
BIO_new_socket (int sock, int close_flag)
{
    BIO *bio;

```

```

    bio = (BIO *) malloc (sizeof (BIO));
    if (!bio)
        return NULL;

```

```

    bio->fd = GNUTLS_INT_TO_POINTER (sock);

```

```

    return bio;
}

```

```

/* error handling */

```

```

unsigned long
ERR_get_error (void)
{
    unsigned long ret;

    ret = -1 * last_error;
    last_error = 0;

    return ret;
}

```



```

}

const char *
ERR_error_string (unsigned long e, char *buf)
{
    return gnutls_strerror (-1 * e);
}

/* RAND functions */

int
RAND_status (void)
{
    return 1;
}

void
RAND_seed (const void *buf, int num)
{
}

int
RAND_bytes (unsigned char *buf, int num)
{
    _gnutls_rnd (GNUTLS_RND_RANDOM, buf, num);
    return 1;
}

int
RAND_pseudo_bytes (unsigned char *buf, int num)
{
    _gnutls_rnd (GNUTLS_RND_NONCE, buf, num);
    return 1;
}

const char *
RAND_file_name (char *buf, size_t len)
{
    return "";
}

int
RAND_load_file (const char *name, long maxbytes)
{
    return maxbytes;
}

```

```

int
RAND_write_file (const char *name)
{
    return 0;
}

int
RAND_egd_bytes (const char *path, int bytes)
{
    /* fake it */
    return bytes;
}

/* message digest functions */

void
MD5_Init (MD5_CTX * ctx)
{
    ctx->handle = gnutls_malloc (sizeof (digest_hd_st));
    if (!ctx->handle)
        abort ();
    _gnutls_hash_init (ctx->handle, GNUTLS_DIG_MD5);
}

void
MD5_Update (MD5_CTX * ctx, const void *buf, int len)
{
    _gnutls_hash (ctx->handle, buf, len);
}

void
MD5_Final (unsigned char *md, MD5_CTX * ctx)
{
    _gnutls_hash_deinit (ctx->handle, md);
    gnutls_free (ctx->handle);
}

unsigned char *
MD5 (const unsigned char *buf, unsigned long len, unsigned char *md)
{
    if (!md)
        return NULL;

    _gnutls_hash_fast (GNUTLS_DIG_MD5, buf, len, md);

    return md;
}

```

```

void
RIPEMD160_Init (RIPEMD160_CTX * ctx)
{
    ctx->handle = gnutls_malloc (sizeof (digest_hd_st));
    if (!ctx->handle)
        abort ();
    _gnutls_hash_init (ctx->handle, GNUTLS_DIG_RMD160);
}

void
RIPEMD160_Update (RIPEMD160_CTX * ctx, const void *buf, int len)
{
    _gnutls_hash (ctx->handle, buf, len);
}

void
RIPEMD160_Final (unsigned char *md, RIPEMD160_CTX * ctx)
{
    _gnutls_hash_deinit (ctx->handle, md);
    gnutls_free (ctx->handle);
}

unsigned char *
RIPEMD160 (const unsigned char *buf, unsigned long len, unsigned char *md)
{
    if (!md)
        return NULL;

    _gnutls_hash_fast (GNUTLS_DIG_RMD160, buf, len, md);

    return md;
}
# gnutls-common.m4 serial 11
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# gl_COMMON
# is expanded unconditionally through gnulib-tool magic.
AC_DEFUN([gl_COMMON], [
    dnl Use AC_REQUIRE here, so that the code is expanded once only.
    AC_REQUIRE([gl_00GNULIB])
    AC_REQUIRE([gl_COMMON_BODY])
])
AC_DEFUN([gl_COMMON_BODY], [
    AH_VERBATIM([isoc99_inline],

```

```

/* Work around a bug in Apple GCC 4.0.1 build 5465: In C99 mode, it supports
the ISO C 99 semantics of 'extern inline' (unlike the GNU C semantics of
earlier versions), but does not display it by setting __GNUC_STDC_INLINE__
__APPLE__ && __MACH__ test for MacOS X.
__APPLE_CC__ tests for the Apple compiler and its version.
__STDC_VERSION__ tests for the C99 mode. */
#if defined __APPLE__ && defined __MACH__ && __APPLE_CC__ >= 5465 && !defined __cplusplus &&
__STDC_VERSION__ >= 199901L && !defined __GNUC_STDC_INLINE__
# define __GNUC_STDC_INLINE__ 1
#endif)
AH_VERBATIM([unused_parameter],
/* Define as a marker that can be attached to function parameter declarations
for parameters that are not used. This helps to reduce warnings, such as
from GCC -Wunused-parameter. */
#if __GNUC__ >= 3 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 7)
# define _UNUSED_PARAMETER__ attribute__((__unused__))
#else
# define _UNUSED_PARAMETER__
#endif
)
)

# gl_MODULE_INDICATOR([modulename])
# defines a C macro indicating the presence of the given module.
AC_DEFUN([gl_MODULE_INDICATOR],
[
AC_DEFINE([GNULIB_]translit([$1],[abcdefghijklmnopqrstuvwxyz./-
],[ABCDEFGHIJKLMNOPQRSTUVWXYZ_]), [1],
[Define to 1 when using the gnulib module ]$1[.])
])

# m4_foreach_w
# is a backport of autoconf-2.59c's m4_foreach_w.
# Remove this macro when we can assume autoconf >= 2.60.
m4_ifndef([m4_foreach_w],
[m4_define([m4_foreach_w],
[m4_foreach([$1], m4_split(m4_normalize([$2]), [ ]), [$3])]])])

# AC_PROG_MKDIR_P
# is a backport of autoconf-2.60's AC_PROG_MKDIR_P.
# Remove this macro when we can assume autoconf >= 2.60.
m4_ifdef([AC_PROG_MKDIR_P], [], [
AC_DEFUN_ONCE([AC_PROG_MKDIR_P],
[AC_REQUIRE([AM_PROG_MKDIR_P])dnl defined by automake
MKDIR_P='${mkdir_p}'
AC_SUBST([MKDIR_P])])])

# AC_C_RESTRICT

```

```

# This definition overrides the AC_C_RESTRICT macro from autoconf 2.60..2.61,
# so that mixed use of GNU C and GNU C++ and mixed use of Sun C and Sun C++
# works.
# This definition can be removed once autoconf >= 2.62 can be assumed.
AC_DEFUN([AC_C_RESTRICT],
[AC_CACHE_CHECK([for C/C++ restrict keyword], [ac_cv_c_restrict],
[ac_cv_c_restrict=no
# The order here caters to the fact that C++ does not require restrict.
for ac_kw in __restrict __restrict__ _Restrict restrict; do
  AC_COMPILE_IFELSE([AC_LANG_PROGRAM(
    [[typedef int * int_ptr;
int foo (int_ptr $ac_kw ip) {
return ip[0];
    }]],
    [[int s[1];
int * $ac_kw t = s;
t[0] = 0;
return foo(t)]]),
    [ac_cv_c_restrict=$ac_kw]
    test "$ac_cv_c_restrict" != no && break
done
])
AH_VERBATIM([restrict],
[/* Define to the equivalent of the C99 'restrict' keyword, or to
nothing if this is not supported. Do not define if restrict is
supported directly. */
#undef restrict
/* Work around a bug in Sun C++: it does not support _Restrict, even
though the corresponding Sun C compiler does, which causes
"#define restrict _Restrict" in the previous line. Perhaps some future
version of Sun C++ will work with _Restrict; if so, it'll probably
define __RESTRICT, just as Sun C does. */
#if defined __SUNPRO_CC && !defined __RESTRICT
# define _Restrict
#endif])
case $ac_cv_c_restrict in
  restrict) ;;
  no) AC_DEFINE([restrict], []) ;;
  *) AC_DEFINE_UNQUOTED([restrict], [$ac_cv_c_restrict]) ;;
esac
])

# gl_BIGENDIAN
# is like AC_C_BIGENDIAN, except that it can be AC_REQUIRED.
# Note that AC_REQUIRE([AC_C_BIGENDIAN]) does not work reliably because some
# macros invoke AC_C_BIGENDIAN with arguments.
AC_DEFUN([gl_BIGENDIAN],
[

```

AC_C_BIGENDIAN

)

```
# gl_CACHE_VAL_SILENT(cache-id, command-to-set-it)
# is like AC_CACHE_VAL(cache-id, command-to-set-it), except that it does not
# output a spurious "(cached)" mark in the midst of other configure output.
# This macro should be used instead of AC_CACHE_VAL when it is not surrounded
# by an AC_MSG_CHECKING/AC_MSG_RESULT pair.
```

```
AC_DEFUN([gl_CACHE_VAL_SILENT],
```

```
[
```

```
  saved_as_echo_n="$as_echo_n"
```

```
  as_echo_n=':'
```

```
  AC_CACHE_VAL([$1], [$2])
```

```
  as_echo_n="$saved_as_echo_n"
```

```
])
```

```
# 00gnulib.m4 serial 2
```

```
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```

```
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```

```
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```

```
dnl with or without modifications, as long as this notice is preserved.
```

```
dnl This file must be named something that sorts before all other
```

```
dnl gnulib-provided .m4 files. It is needed until such time as we can
```

```
dnl assume Autoconf 2.64, with its improved AC_DEFUN_ONCE semantics.
```

```
# AC_DEFUN_ONCE([NAME], VALUE)
```

```
# -----
```

```
# Define NAME to expand to VALUE on the first use (whether by direct
# expansion, or by AC_REQUIRE), and to nothing on all subsequent uses.
```

```
# Avoid bugs in AC_REQUIRE in Autoconf 2.63 and earlier. This
```

```
# definition is slower than the version in Autoconf 2.64, because it
```

```
# can only use interfaces that existed since 2.59; but it achieves the
```

```
# same effect. Quoting is necessary to avoid confusing Automake.
```

```
m4_version_prereq([2.63.263], [],
```

```
[m4_define([AC][_DEFUN_ONCE],
```

```
  [AC][_DEFUN([$1],
```

```
    [AC_REQUIRE([_gl_DEFUN_ONCE([$1])],
```

```
      [m4_indir([_gl_DEFUN_ONCE([$1])])])])])dnl
```

```
[AC][_DEFUN([_gl_DEFUN_ONCE([$1]), [$2])])])
```

```
# gl_00GNULIB
```

```
# -----
```

```
# Witness macro that this file has been included. Needed to force
```

```
# Automake to include this file prior to all other gnulib .m4 files.
```

```
AC_DEFUN([gl_00GNULIB])
```

```
# DO NOT EDIT! GENERATED AUTOMATICALLY!
```

```
# Copyright (C) 2002-2009 Free Software Foundation, Inc.
```

```
#
```

```

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# General Public License. As a special exception to the GNU General
# Public License, this file may be distributed as part of a program
# that contains a configuration script generated by Autoconf, under
# the same distribution terms as the rest of that program.
#
# Generated by gnulib-tool.
#
# This file represents the compiled summary of the specification in
# gnulib-cache.m4. It lists the computed macro invocations that need
# to be invoked from configure.ac.
# In projects using CVS, this file can be treated like other built files.

```

```

# This macro should be invoked from ./configure.ac, in the section
# "Checks for programs", right after AC_PROG_CC, and certainly before
# any checks for libraries, header files, types and library functions.
AC_DEFUN([xgl_EARLY],
[
  m4_pattern_forbid([^\gl_[A-Z]])dnl the gnulib macro namespace
  m4_pattern_allow([^\gl_ES$])dnl a valid locale name
  m4_pattern_allow([^\gl_LIBOBJ$])dnl a variable
  m4_pattern_allow([^\gl_LTLIBOBJ$])dnl a variable
  AC_REQUIRE([AC_PROG_RANLIB])
  AC_REQUIRE([gl_USE_SYSTEM_EXTENSIONS])
])

```

```

# This macro should be invoked from ./configure.ac, in the section
# "Check for header files, types and library functions".
AC_DEFUN([xgl_INIT],
[
  AM_CONDITIONAL([GL_COND_LIBTOOL], [true])
  gl_cond_libtool=true
  m4_pushdef([AC_LIBOBJ], m4_defn([xgl_LIBOBJ]))
  m4_pushdef([AC_REPLACE_FUNCS], m4_defn([xgl_REPLACE_FUNCS]))
  m4_pushdef([AC_LIBSOURCES], m4_defn([xgl_LIBSOURCES]))
  m4_pushdef([xgl_LIBSOURCES_LIST], [])
  m4_pushdef([xgl_LIBSOURCES_DIR], [])
  gl_COMMON
  gl_source_base='gl'
  gl_HMAC_MD5
  gl_MD5
  gl_LD_OUTPUT_DEF
  gl_LD_VERSION_SCRIPT
  gl_MEMXOR
  m4_ifval(xgl_LIBSOURCES_LIST, [
    m4_syscmd([test ! -d ]m4_defn([xgl_LIBSOURCES_DIR])[ ||
      for gl_file in ]xgl_LIBSOURCES_LIST[ ; do

```

```

if test ! -r ]m4_defn([xgl_LIBSOURCES_DIR])[$gl_file ; then
  echo "missing file ]m4_defn([xgl_LIBSOURCES_DIR])[$gl_file" >&2
  exit 1
fi
done)dnl
m4_if(m4_sysval, [0], [],
  [AC_FATAL([expected source file, required through AC_LIBSOURCES, not found]))
])
m4_popdef([xgl_LIBSOURCES_DIR])
m4_popdef([xgl_LIBSOURCES_LIST])
m4_popdef([AC_LIBSOURCES])
m4_popdef([AC_REPLACE_FUNCS])
m4_popdef([AC_LIBOBJ])
AC_CONFIG_COMMANDS_PRE([
  xgl_libobjs=
  xgl_ltlibobjs=
  if test -n "$xgl_LIBOBS"; then
    # Remove the extension.
    sed_drop_objext='s/\.o$/;/s/\.obj$/'
    for i in `for i in $xgl_LIBOBS; do echo "$i"; done | sed "$sed_drop_objext" | sort | uniq`; do
      xgl_libobjs="$xgl_libobjs $i.$ac_objext"
      xgl_ltlibobjs="$xgl_ltlibobjs $i.lo"
    done
  fi
  AC_SUBST([xgl_LIBOBS], [$xgl_libobjs])
  AC_SUBST([xgl_LTLIBOBS], [$xgl_ltlibobjs])
])
gltests_libdeps=
gltests_ltlibdeps=
m4_pushdef([AC_LIBOBJ], m4_defn([xgltests_LIBOBJ]))
m4_pushdef([AC_REPLACE_FUNCS], m4_defn([xgltests_REPLACE_FUNCS]))
m4_pushdef([AC_LIBSOURCES], m4_defn([xgltests_LIBSOURCES]))
m4_pushdef([xgltests_LIBSOURCES_LIST], [])
m4_pushdef([xgltests_LIBSOURCES_DIR], [])
gl_COMMON
gl_source_base='gl/tests'
m4_ifval(xgltests_LIBSOURCES_LIST, [
  m4_syscmd([test ! -d ]m4_defn([xgltests_LIBSOURCES_DIR])[ ||
  for gl_file in ]xgltests_LIBSOURCES_LIST[ ; do
    if test ! -r ]m4_defn([xgltests_LIBSOURCES_DIR])[$gl_file ; then
      echo "missing file ]m4_defn([xgltests_LIBSOURCES_DIR])[$gl_file" >&2
      exit 1
    fi
  done)dnl
  m4_if(m4_sysval, [0], [],
    [AC_FATAL([expected source file, required through AC_LIBSOURCES, not found]))
  ])
m4_popdef([xgltests_LIBSOURCES_DIR])

```



```

m4_popdef([xgltests_LIBSOURCES_LIST])
m4_popdef([AC_LIBSOURCES])
m4_popdef([AC_REPLACE_FUNCS])
m4_popdef([AC_LIBOBJ])
AC_CONFIG_COMMANDS_PRE([
  xgltests_libobjs=
  xgltests_ltlibobjs=
  if test -n "$xgltests_LIBOBJS"; then
    # Remove the extension.
    sed_drop_objext='s/\.o$//;s/\.obj$//'
    for i in `for i in $xgltests_LIBOBJS; do echo "$i"; done | sed "$sed_drop_objext" | sort | uniq`; do
      xgltests_libobjs="$xgltests_libobjs $i.$ac_objext"
      xgltests_ltlibobjs="$xgltests_ltlibobjs $i.lo"
    done
  fi
  AC_SUBST([xgltests_LIBOBJS], [$xgltests_libobjs])
  AC_SUBST([xgltests_LTLIBOBJS], [$xgltests_ltlibobjs])
])
])

# Like AC_LIBOBJ, except that the module name goes
# into xgl_LIBOBJS instead of into LIBOBJS.
AC_DEFUN([xgl_LIBOBJ], [
  AS_LITERAL_IF([$1], [xgl_LIBSOURCES([$1.c]))dnl
  xgl_LIBOBJS="$xgl_LIBOBJS $1.$ac_objext"
])

# Like AC_REPLACE_FUNCS, except that the module name goes
# into xgl_LIBOBJS instead of into LIBOBJS.
AC_DEFUN([xgl_REPLACE_FUNCS], [
  m4_foreach_w([_gl_NAME], [$1], [AC_LIBSOURCES(_gl_NAME[.c]))dnl
  AC_CHECK_FUNCS([$1], , [xgl_LIBOBJ($ac_func)])
])

# Like AC_LIBSOURCES, except the directory where the source file is
# expected is derived from the gnullib-tool parameterization,
# and alloca is special cased (for the alloca-opt module).
# We could also entirely rely on EXTRA_lib..._SOURCES.
AC_DEFUN([xgl_LIBSOURCES], [
  m4_foreach([_gl_NAME], [$1], [
    m4_if(_gl_NAME, [alloca.c], [], [
      m4_define([xgl_LIBSOURCES_DIR], [_gl])
      m4_append([xgl_LIBSOURCES_LIST], [_gl_NAME], [ ])
    ])
  ])
])

# Like AC_LIBOBJ, except that the module name goes

```

```

# into xgltests_LIBOBS instead of into LIBOBS.
AC_DEFUN([xgltests_LIBOBJ], [
  AS_LITERAL_IF([$1], [xgltests_LIBSOURCES([$1.c]])dnl
  xgltests_LIBOBS="$xgltests_LIBOBS $1.$ac_objext"
])

# Like AC_REPLACE_FUNCS, except that the module name goes
# into xgltests_LIBOBS instead of into LIBOBS.
AC_DEFUN([xgltests_REPLACE_FUNCS], [
  m4_foreach_w([gl_NAME], [$1], [AC_LIBSOURCES(gl_NAME[.c]])dnl
  AC_CHECK_FUNCS([$1], , [xgltests_LIBOBJ($ac_func)])
])

# Like AC_LIBSOURCES, except the directory where the source file is
# expected is derived from the gnulib-tool parameterization,
# and alloca is special cased (for the alloca-opt module).
# We could also entirely rely on EXTRA_lib..._SOURCES.
AC_DEFUN([xgltests_LIBSOURCES], [
  m4_foreach([_gl_NAME], [$1], [
    m4_if(_gl_NAME, [alloca.c], [], [
      m4_define([xgltests_LIBSOURCES_DIR], [gl/tests])
      m4_append([xgltests_LIBSOURCES_LIST], _gl_NAME, [ ])
    ])
  ])
])

# This macro records the list of files which have been installed by
# gnulib-tool and may be removed by future gnulib-tool invocations.
AC_DEFUN([xgl_FILE_LIST], [
  build-aux/config.rpath
  lib/hmac-md5.c
  lib/hmac.h
  lib/md5.c
  lib/md5.h
  lib/memxor.c
  lib/memxor.h
  m4/00gnulib.m4
  m4/extensions.m4
  m4/gnulib-common.m4
  m4/hmac-md5.m4
  m4/ld-output-def.m4
  m4/ld-version-script.m4
  m4/lib-ld.m4
  m4/lib-link.m4
  m4/lib-prefix.m4
  m4/md5.m4
  m4/memxor.m4
])

```

```

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#
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# General Public License. As a special exception to the GNU General
# Public License, this file may be distributed as part of a program
# that contains a configuration script generated by Autoconf, under
# the same distribution terms as the rest of that program.
#
# Generated by gnulib-tool.
# Reproduce by: gnulib-tool --import --dir=. --lib=libxgnu --source-base=gl --m4-base=gl/m4 --doc-base=doc --
tests-base=gl/tests --aux-dir=build-aux --avoid=dummy --avoid=stdint --makefile-name=gnulib.mk --libtool --
macro-prefix=xgl --no-vc-files crypto/hmac-md5 crypto/md5 extensions havelib lib-msvc-compat lib-symbol-
versions

MOSTLYCLEANFILES += core *.stackdump

noinst_LTLIBRARIES += libxgnu.la

libxgnu_la_SOURCES =
libxgnu_la_LIBADD = $(xgl_LTLIBOBJS)
libxgnu_la_DEPENDENCIES = $(xgl_LTLIBOBJS)
EXTRA_libxgnu_la_SOURCES =
libxgnu_la_LDFLAGS = $(AM_LDFLAGS)

## begin gnulib module crypto/hmac-md5

EXTRA_DIST += hmac-md5.c hmac.h

EXTRA_libxgnu_la_SOURCES += hmac-md5.c

## end gnulib module crypto/hmac-md5

## begin gnulib module crypto/md5

EXTRA_DIST += md5.c md5.h

EXTRA_libxgnu_la_SOURCES += md5.c

## end gnulib module crypto/md5

## begin gnulib module havelib

```

```

EXTRA_DIST += $(top_srcdir)/build-aux/config.rpath

## end gnulib module havelib

## begin gnulib module memxor

EXTRA_DIST += memxor.c memxor.h

EXTRA_libxgnu_la_SOURCES += memxor.c

## end gnulib module memxor

mostlyclean-local: mostlyclean-generic
@for dir in " $(MOSTLYCLEANDIRS); do \
  if test -n "$$dir" && test -d $$dir; then \
    echo "rmdir $$dir"; rmdir $$dir; \
  fi; \
done; \
:
# Process this file with autoconf to produce a pkg-config metadata file.
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# Author: Simon Josefsson
#
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#
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# implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

prefix=@prefix@
exec_prefix=@exec_prefix@
libdir=@libdir@
includedir=@includedir@

Name: GnuTLS-extra
Description: Additional add-ons for GnuTLS licensed under GPL
URL: http://www.gnu.org/software/gnutls/
Requires: gnutls
Version: @VERSION@
Libs: -L${libdir} -lgnutls-extra
Libs.private: @LIBGNUTLS_EXTRA_LIBS@
Cflags: -I${includedir}
# libgnutls-extra.map -- libgnutls-extra linker version script -*-
# Copyright (C) 2005, 2007, 2008, 2009 Free Software Foundation

```

```
#
# Author: Simon Josefsson
#
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#
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# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
# 02110-1301, USA.
```

```
GNUTLS_1_4
```

```
{
global:
  gnutls_extra_check_version;
  gnutls_global_init_extra;
  gnutls_ia_allocate_client_credentials;
  gnutls_ia_allocate_server_credentials;
  gnutls_ia_enable;
  gnutls_ia_endphase_send;
  gnutls_ia_extract_inner_secret;
  gnutls_ia_free_client_credentials;
  gnutls_ia_free_server_credentials;
  gnutls_ia_generate_challenge;
  gnutls_ia_get_client_avp_ptr;
  gnutls_ia_get_server_avp_ptr;
  gnutls_ia_handshake;
  gnutls_ia_handshake_p;
  gnutls_ia_permute_inner_secret;
  gnutls_ia_rcv;
  gnutls_ia_send;
  gnutls_ia_set_client_avp_function;
  gnutls_ia_set_client_avp_ptr;
  gnutls_ia_set_server_avp_function;
  gnutls_ia_set_server_avp_ptr;
  gnutls_ia_verify_endphase;
  gnutls_register_md5_handler;
```

```
local:
```

```

*,
};
/*
* Copyright (C) 2001, 2004, 2005, 2007, 2008, 2009 Free Software Foundation
*
* Author: Nikos Mavrogiannopoulos
*
* This file is part of GNUTLS-EXTRA.
*
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*
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* General Public License for more details.
*
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* along with this program. If not, see
* <http://www.gnu.org/licenses/>.
*/

#include <gnutls_int.h>
#include <gnutls_errors.h>
#include <gnutls_extensions.h>
#include <gnutls_algorithms.h>
#include <ext_inner_application.h>
#ifdef USE_LZO
# ifdef USE_MINILZO
#  include "minilzo/minilzo.h"
#  elif HAVE_LZO_LZO1X_H
#   include <lzo/lzo1x.h>
#  elif HAVE_LZO1X_H
#   include <lzo1x.h>
#  endif
#endif
#include <gnutls/extra.h>

#ifdef USE_LZO
#include <gnutls_compress.h>

/* the number of the compression algorithms available in the compression
* structure.
*/
extern int _gnutls_comp_algorithms_size;

```

```

typedef int (*LZO_FUNC) ();
extern LZO_FUNC _gnutls_lzo1x_decompress_safe;
extern LZO_FUNC _gnutls_lzo1x_1_compress;

extern gnutls_compression_entry _gnutls_compression_algorithms[];

static int
_gnutls_add_lzo_comp (void)
{
    int i;

    /* find the last element */
    for (i = 0; i < _gnutls_comp_algorithms_size; i++)
    {
        if (_gnutls_compression_algorithms[i].name == NULL)
            break;
    }

    if (_gnutls_compression_algorithms[i].name == NULL
        && (i < _gnutls_comp_algorithms_size - 1))
    {
        _gnutls_compression_algorithms[i].name = "GNUTLS_COMP_LZO";
        _gnutls_compression_algorithms[i].id = GNUTLS_COMP_LZO;
        _gnutls_compression_algorithms[i].num = 0xf2;

        _gnutls_compression_algorithms[i + 1].name = 0;

        /* Now enable the lzo functions: */
        _gnutls_lzo1x_decompress_safe = lzo1x_decompress_safe;
        _gnutls_lzo1x_1_compress = lzo1x_1_compress;

        return 0; /* ok */
    }

    return GNUTLS_E_MEMORY_ERROR;
}
#endif

static int _gnutls_init_extra = 0;

/**
 * gnutls_global_init_extra - initializes the global state of gnutls-extra
 *
 * This function initializes the global state of gnutls-extra library
 * to defaults.
 *
 * Note that gnutls_global_init() has to be called before this

```

```

* function. If this function is not called then the gnutls-extra
* library will not be usable.
*
* This function is not thread safe, see the discussion for
* gnutls_global_init() on how to deal with that.
*
* Returns: On success, %GNUTLS_E_SUCCESS (zero) is returned,
* otherwise an error code is returned.
**/
int
gnutls_global_init_extra (void)
{
    int ret;

    /* If the version of libgnutls != version of
    * libextra, then do not initialize the library.
    * This is because it may break things.
    */
    if (strcmp (gnutls_check_version (NULL), VERSION) != 0)
    {
        return GNUTLS_E_LIBRARY_VERSION_MISMATCH;
    }

    _gnutls_init_extra++;

    if (_gnutls_init_extra != 1)
        return 0;

    ret = gnutls_ext_register (GNUTLS_EXTENSION_INNER_APPLICATION,
        "INNER_APPLICATION",
        GNUTLS_EXT_TLS,
        _gnutls_inner_application_recv_params,
        _gnutls_inner_application_send_params);
    if (ret != GNUTLS_E_SUCCESS)
        return ret;

    /* Initialize the LZO library
    */
#ifdef USE_LZO
    if (lzo_init () != LZO_E_OK)
        return GNUTLS_E_LZO_INIT_FAILED;

    /* Add the LZO compression method in the list of compression
    * methods.
    */
    ret = _gnutls_add_lzo_comp ();
    if (ret < 0)
    {

```



```

    gnutls_assert ();
    return ret;
}
#endif

return 0;
}

/**
 * gnutls_extra_check_version - checks the libgnutls-extra version
 * @req_version: version string to compare with, or %NULL.
 *
 * Check GnuTLS Extra Library version.
 *
 * See %GNUTLS_EXTRA_VERSION for a suitable @req_version string.
 *
 * Return value: Check that the version of the library is at
 * minimum the one given as a string in @req_version and return the
 * actual version string of the library; return %NULL if the
 * condition is not met. If %NULL is passed to this function no
 * check is done and only the version string is returned.
 */
const char *
gnutls_extra_check_version (const char *req_version)
{
    if (!req_version || strverscmp (req_version, VERSION) <= 0)
        return VERSION;

    return NULL;
}

/*
 * Copyright (C) 2005, 2008 Free Software Foundation
 *
 * Author: Simon Josefsson
 *
 * This file is part of GNUTLS-EXTRA.
 *
 * GNUTLS-EXTRA is free software: you can redistribute it and/or
 * modify it under the terms of the GNU General Public License as
 * published by the Free Software Foundation, either version 3 of the
 * License, or (at your option) any later version.
 *
 * GNUTLS-EXTRA is distributed in the hope that it will be useful, but
 * WITHOUT ANY WARRANTY; without even the implied warranty of
 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
 * General Public License for more details.
 *
 * You should have received a copy of the GNU General Public License

```

```
* along with this program. If not, see
* <http://www.gnu.org/licenses/>.
*
*/
```

```
int _gnutls_inner_application_recv_params (gnutls_session_t session,
    const opaque * data,
    size_t data_size);
int _gnutls_inner_application_send_params (gnutls_session_t session,
    opaque * data, size_t);
<html lang="en">
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<meta http-equiv="Content-Type" content="text/html">
<meta name="description" content="GNU TLS 2.8.5">
<meta name="generator" content="makeinfo 4.13">
<link title="Top" rel="top" href="#Top">
<link href="http://www.gnu.org/software/texinfo/" rel="generator-home" title="Texinfo Homepage">
<!--
This manual is last updated 2 June 2009 for version
2.8.5 of GNU TLS.
```

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```
-->
<meta http-equiv="Content-Style-Type" content="text/css">
<style type="text/css"><!--
pre.display { font-family:inherit }
pre.format { font-family:inherit }
pre.smalldisplay { font-family:inherit; font-size:smaller }
pre.smallformat { font-family:inherit; font-size:smaller }
pre.smallexample { font-size:smaller }
pre.smalllisp { font-size:smaller }
span.sc { font-variant:small-caps }
span.roman { font-family:serif; font-weight:normal; }
span.sansserif { font-family:sans-serif; font-weight:normal; }
body {
margin: 2%;
padding: 0 5%;
background: #ffffff;
}
h1,h2,h3,h4,h5 {
```

```

    font-weight: bold;
    padding: 5px 5px 5px 5px;
    background-color: #c2e0ff;
    color: #336699;
}
h1 {
    padding: 2em 2em 2em 5%;
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    text-align: center;
    letter-spacing: 3px;
}
h2 { text-decoration: underline; }
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    background: #eeeeff;
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}
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    background: white;
    padding-bottom: 1em;
}
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    margin-bottom: 0.5em;
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    padding-bottom: 0.1em;
}
--></style>
</head>
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<h2 class="unnumbered">GNU TLS</h2>

<p>This manual is last updated 2 June 2009 for version 2.8.5 of GNU TLS.

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<blockquote>

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<h2 class="chapter">1 Preface</h2>

<p>This document tries to demonstrate and explain the <acronym>GnuTLS</acronym> library API. A brief introduction to the protocols and the technology involved, is also included so that an application programmer can better understand the <acronym>GnuTLS</acronym> purpose and actual offerings. Even if <acronym>GnuTLS</acronym> is a typical library software, it operates over several security and cryptographic protocols, which require the programmer to make careful and correct usage of them, otherwise he risks to offer just a false sense of security. Security and the

network security terms are very general terms even for computer software thus cannot be easily restricted to a single cryptographic library. For that reason, do not consider a program secure just because it uses `<acronym>GnuTLS</acronym>`; there are several ways to compromise a program or a communication line and `<acronym>GnuTLS</acronym>` only helps with some of them.

`<p>`Although this document tries to be self contained, basic network programming and PKI knowlegde is assumed in most of it. A good introduction to networking can be found in [STEVENS] (see `Bibliography`) and for Public Key Infrastructure in [GUTPKI] (see `Bibliography`).

`<p>```Updated versions of the `<acronym>GnuTLS</acronym>` software and this document will be available from `http://www.gnutls.org/` and `http://www.gnu.org/software/gnutls/`.

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<li><a accesskey="4" href="#Bug-Reports">Bug Reports</a>
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`<h3 class="section">1.1 Getting Help</h3>`

`<p>`A mailing list where users may help each other exists, and you can reach it by sending e-mail to `help-gnutls@gnu.org`. Archives of the mailing list discussions, and an interface to manage subscriptions, is available through the World Wide Web at `http://lists.gnu.org/mailman/listinfo/help-gnutls`.

`<p>`A mailing list for developers are also available, see `http://www.gnu.org/software/gnutls/lists.html`.

`<p>`Bug reports should be sent to `bug-gnutls@gnu.org`, see See `Bug Reports`.

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</div>

1.2 Commercial Support</h3>

<p>Commercial support is available for users of GnuTLS. The kind of support that can be purchased may include:

Implement new features.

Such as a new TLS extension.

Port GnuTLS to new platforms.

This could include porting to an embedded platforms that may need memory or size optimization.

Integrating TLS as a security environment in your existing project.

System design of components related to TLS.

<p>If you are interested, please write to:

<pre class="verbatim">Simon Josefsson Datakonsult

Hagagatan 24

113 47 Stockholm

Sweden

E-mail: simon@josefsson.org

</pre>

<p>If your company provide support related to GnuTLS and would like to be mentioned here, contact the author (see Bug Reports).

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<p><hr>

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1.3 Downloading and Installing

GnuTLS is available for download from the following URL:

<http://www.gnutls.org/download.html>

The latest version is stored in a file, e.g., `gnutls-2.8.5.tar.gz`; where the `2.8.5` value is the highest version number in the directory.

GnuTLS uses a Linux-like development cycle: even minor version numbers indicate a stable release and a odd minor version number indicates a development release. For example, GnuTLS 1.6.3 denote a stable release since 6 is even, and GnuTLS 1.7.11 denote a development release since 7 is odd.

GnuTLS depends on Libgcrypt, and you will need to install Libgcrypt before installing GnuTLS. Libgcrypt is available from <ftp://ftp.gnupg.org/gcrypt/libgcrypt>. Libgcrypt needs another library, libpgp-error, and you need to install libpgp-error before installing Libgcrypt. Libpgp-error is available from <ftp://ftp.gnupg.org/gcrypt/libpgp-error>.

Don't forget to verify the cryptographic signature after downloading source code packages.

The package is then extracted, configured and built like many other packages that use Autoconf. For detailed information on configuring and building it, refer to the `INSTALL` file that is part of the distribution archive. Typically you invoke `./configure` and then `make check install`. There are a number of compile-time parameters, as discussed below.

The compression libraries (libz and lzo) are optional dependencies. You can get libz from <http://www.zlib.net/>. You can get lzo from <http://www.oberhumer.com/opensource/lzo/>.

The X.509 part of GnuTLS needs ASN.1 functionality, from a library called libtasn1. A copy of libtasn1 is included in GnuTLS. If you want to install it separately (e.g., to make it possibly to use libtasn1 in other programs), you can get it from <http://www.gnu.org/software/gnutls/download.html>.

The OpenPGP part of GnuTLS uses a stripped down version of OpenCDK for parsing OpenPGP packets. It is included in GnuTLS. Use the parameter `--disable-openpgp-authentication` to disable the OpenPGP functionality in GnuTLS. Unfortunately, we didn't have resources to maintain the code in a separate library.

Regarding the Guile bindings, there are additional installation considerations, see [Guile Preparations](#Guile-Preparations).

A few `configure` options may be relevant, summarized in the table.

<code>--disable-srp-authentication</code>	<code>--disable-psk-authentication</code>	<code>--disable-anon-authentication</code>	<code>--disable-extra-pki</code>	<code>--disable-openpgp-authentication</code>	<code>--disable-openssl-compatibility</code>
Disable or enable particular features. Generally not recommended.					

For the complete list, refer to the output from `configure --help`.

[Bug-Reports](#)

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Previous: [Downloading and Installing](#),

Up: [Preface](#)

1.4 Bug Reports

[index-Reporting-Bugs-3](#)

If you think you have found a bug in GnuTLS, please investigate it and report it.

-

- Please make sure that the bug is really in GnuTLS, and preferably also check that it hasn't already been fixed in the latest version.
- You have to send us a test case that makes it possible for us to reproduce the bug.

You also have to explain what is wrong; if you get a crash, or if the results printed are not good and in that case, in what way. Make sure that the bug report includes all information you would need to fix this kind of bug for someone else.

<p>Please make an effort to produce a self-contained report, with something definite that can be tested or debugged. Vague queries or piecemeal messages are difficult to act on and don't help the development effort.

<p>If your bug report is good, we will do our best to help you to get a corrected version of the software; if the bug report is poor, we won't do anything about it (apart from asking you to send better bug reports).

<p>If you think something in this manual is unclear, or downright incorrect, or if the language needs to be improved, please also send a note.

<p>Send your bug report to:

<div align="center">‘<samp>bug-gnutls@gnu.org</samp>’</div>

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<h3 class="section">1.5 Contributing</h3>

<p>

If you want to submit a patch for inclusion – from solve a typo you discovered, up to adding support for a new feature – you should submit it as a bug report (see Bug Reports). There are some things that you can do to increase the chances for it to be included in the official package.

<p>Unless your patch is very small (say, under 10 lines) we require that you assign the copyright of your work to the Free Software Foundation. This is to protect the freedom of the project. If you have not already signed papers, we will send you the necessary information when you submit your contribution.

<p>For contributions that doesn't consist of actual programming code, the only guidelines are common sense. Use it.

<p>For code contributions, a number of style guides will help you:

Coding Style.

Follow the GNU Standards document (see GNU Coding Standards).

<p>If you normally code using another coding standard, there is no problem, but you should use ‘<samp>indent</samp>’ to reformat the code

(see GNU Indent) before submitting your work.

Use the unified diff format ‘<samp>diff -u</samp>’.

Return errors.

No reason whatsoever should abort the execution of the library. Even memory allocation errors, e.g. when malloc return NULL, should work although result in an error code.

Design with thread safety in mind.

Don't use global variables. Don't even write to per-handle global variables unless the documented behaviour of the function you write is to write to the per-handle global variable.

Avoid using the C math library.

It causes problems for embedded implementations, and in most situations it is very easy to avoid using it.

Document your functions.

Use comments before each function headers, that, if properly formatted, are extracted into Texinfo manuals and GTK-DOC web pages.

Supply a ChangeLog and NEWS entries, where appropriate.

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<h2 class="chapter">2 The Library</h2>

In brief `GnuTLS` can be described as a library which offers an API to access secure communication protocols. These protocols provide privacy over insecure lines, and were designed to prevent eavesdropping, tampering, or message forgery.

Technically `GnuTLS` is a portable ANSI C based library which implements the TLS 1.1 and SSL 3.0 protocols (See [Introduction to TLS](#Introduction-to-TLS), for a more detailed description of the protocols), accompanied with the required framework for authentication and public key infrastructure. Important features of the `GnuTLS` library include:

- Support for TLS 1.0, TLS 1.1, and SSL 3.0 protocols.
- Support for both `X.509` and `OpenPGP` certificates.
- Support for handling and verification of certificates.
- Support for `SRP` for TLS authentication.
- Support for `PSK` for TLS authentication.
- Support for TLS Extension mechanism.
- Support for TLS Compression Methods.

Additionally `GnuTLS` provides a limited emulation API for the widely used `OpenSSL` ¹ library, to ease integration with existing applications.

`GnuTLS` consists of three independent parts, namely the 'TLS protocol part', the 'Certificate part', and the 'Cryptographic backend' part. The 'TLS protocol part' is the actual protocol implementation, and is entirely implemented within the `GnuTLS` library. The 'Certificate part' consists of the certificate parsing, and verification functions which is partially implemented in the `GnuTLS` library. The `Libtasn1` ², a library which offers `ASN.1` parsing capabilities, is used for the `X.509` certificate parsing functions. A smaller version of `OpenCDK` ³ is used for the `OpenPGP` key support in `GnuTLS`. The 'Cryptographic backend' is provided by the `Libgcrypt` ⁴

library⁵.

<p>In order to ease integration in embedded systems, parts of the <acronym>GnuTLS</acronym> library can be disabled at compile time. That way a small library, with the required features, can be generated.

- General Idea
- Error handling
- Memory handling
- Callback functions

<div class="node">

<p><hr>
Next: Error handling,
Up: The Library

</div>

<h3 class="section">2.1 General Idea</h3>

<p>A brief description of how <acronym>GnuTLS</acronym> works internally is shown at the figure below. This section may be easier to understand after having seen the examples (see examples).

<div class="block-image"></div>

<p>As shown in the figure, there is a read-only global state that is initialized once by the global initialization function. This global structure, among others, contains the memory allocation functions used, and some structures needed for the <acronym>ASN.1</acronym> parser. This structure is never modified by any <acronym>GnuTLS</acronym> function, except for the deinitialization function which frees all memory allocated in the global structure and is called after the program has permanently finished using <acronym>GnuTLS</acronym>.

<p>The credentials structure is used by some authentication methods, such as certificate authentication (see Certificate Authentication). A credentials structure may contain certificates, private keys, temporary parameters for Diffie-Hellman or RSA key exchange, and other stuff that may be shared between several TLS sessions.

<p>This structure should be initialized using the appropriate initialization functions. For example an application which uses certificate authentication would probably initialize the credentials, using the appropriate functions, and put its trusted certificates in

this structure. The next step is to associate the credentials structure with each `TLS` session.

A `GnuTLS` session contains all the required stuff for a session to handle one secure connection. This session calls directly to the transport layer functions, in order to communicate with the peer. Every session has a unique session ID shared with the peer.

Since TLS sessions can be resumed, servers would probably need a database backend to hold the session's parameters. Every `GnuTLS` session after a successful handshake calls the appropriate backend function (See [resume](#resume), for information on initialization) to store the newly negotiated session. The session database is examined by the server just after having received the client hello and if the session ID sent by the client, matches a stored session, the stored session will be retrieved, and the new session will be a resumed one, and will share the same session ID with the previous one.

`<div class="node">`

``

`<p><hr>`

`Next: Memory handling`,

`Previous: General Idea`,

`Up: The Library`

`</div>`

`<h3 class="section">2.2 Error Handling</h3>`

In `GnuTLS` most functions return an integer type as a result. In almost all cases a zero or a positive number means success, and a negative number indicates failure, or a situation that some action has to be taken. Thus negative error codes may be fatal or not.

Fatal errors terminate the connection immediately and further sends and receives will be disallowed. An example of a fatal error code is `GNUTLS_E_DECRYPTION_FAILED`. Non-fatal errors may warn about something, i.e., a warning alert was received, or indicate the some action has to be taken. This is the case with the error code `GNUTLS_E_REHANDSHAKE` returned by [gnutls_record_recv](#gnutls_005frecord_005frecv). This error code indicates that the server requests a re-handshake. The client may ignore this request, or may reply with an alert. You can test if an error code is a fatal one by using the [gnutls_error_is_fatal](#gnutls_005ferror_005fis_005ffatal).

If any non fatal errors, that require an action, are to be returned by

a function, these error codes will be documented in the function's reference. See [Error Codes](#Error-Codes), for all the error codes.

```
<div class="node">
<a name="Memory-handling"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Callback-functions">Callback functions</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Error-handling">Error handling</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#The-Library">The Library</a>
```

```
</div>
```

2.3 Memory Handling

[GnuTLS](#) internally handles heap allocated objects differently, depending on the sensitivity of the data they contain. However for performance reasons, the default memory functions do not overwrite sensitive data from memory, nor protect such objects from being written to the swap. In order to change the default behavior the [gnutls_global_set_mem_functions](#) function is available which can be used to set other memory handlers than the defaults.

The [Libgcrypt](#) library on which [GnuTLS](#) depends, has such secure memory allocation functions available. These should be used in cases where even the system's swap memory is not considered secure. See the documentation of [Libgcrypt](#) for more information.

```
<div class="node">
<a name="Callback-functions"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Memory-handling">Memory handling</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#The-Library">The Library</a>
```

```
</div>
```

2.4 Callback Functions

[index-Callback-functions-6](#)
There are several cases where [GnuTLS](#) may need some out of band input from your program. This is now implemented using some callback functions, which your program is expected to register.

An example of this type of functions are the push and pull callbacks which are used to specify the functions that will retrieve and send data to the transport layer.

- gnutls_transport_set_push_function
- gnutls_transport_set_pull_function

<p>Other callback functions such as the one set by gnutls_srp_set_server_credentials_function, may require more complicated input, including data to be allocated. These callbacks should allocate and free memory using the functions shown below.

- gnutls_malloc
- gnutls_free

Next: Authentication methods, Previous: The Library, Up: Top

>3 Introduction to <acronym>TLS</acronym></h2>

<p><acronym>TLS</acronym> stands for “Transport Layer Security” and is the successor of SSL, the Secure Sockets Layer protocol [SSL3] (see Bibliography) designed by Netscape. <acronym>TLS</acronym> is an Internet protocol, defined by <acronym>IETF</acronym>⁷, described in <acronym>RFC</acronym> 4346 and also in [RESCORLA] (see Bibliography). The protocol provides confidentiality, and authentication layers over any reliable transport layer. The description, below, refers to <acronym>TLS</acronym> 1.0 but also applies to <acronym>TLS</acronym> 1.1 [RFC4346] (see Bibliography) and <acronym>SSL</acronym> 3.0, since the differences of these protocols are minor. Older protocols such as <acronym>SSL</acronym> 2.0 are not discussed nor implemented in <acronym>GnuTLS</acronym> since they are not considered secure today. GnuTLS also supports <acronym>X.509</acronym> and <acronym>OpenPGP</acronym> [RFC4880] (see Bibliography).

```
<ul class="menu">
<li><a accesskey="1" href="#TLS-layers">TLS layers</a>
<li><a accesskey="2" href="#The-transport-layer">The transport layer</a>
<li><a accesskey="3" href="#The-TLS-record-protocol">The TLS record protocol</a>
<li><a accesskey="4" href="#The-TLS-Alert-Protocol">The TLS Alert Protocol</a>
<li><a accesskey="5" href="#The-TLS-Handshake-Protocol">The TLS Handshake Protocol</a>
<li><a accesskey="6" href="#TLS-Extensions">TLS Extensions</a>
<li><a accesskey="7" href="#Selecting-cryptographic-key-sizes">Selecting cryptographic key sizes</a>
<li><a accesskey="8" href="#On-SSL-2-and-older-protocols">On SSL 2 and older protocols</a>
<li><a accesskey="9" href="#On-Record-Padding">On Record Padding</a>
</ul>
```

```
<div class="node">
<a name="TLS-layers"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#The-transport-layer">The transport layer</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Introduction-to-TLS">Introduction to TLS</a>

</div>
```

<h3 class="section">3.1 TLS Layers</h3>

```
<p><a name="index-TLS-Layers-7"></a>
<acronym>TLS</acronym> is a layered protocol, and consists of the Record
Protocol, the Handshake Protocol and the Alert Protocol. The Record
Protocol is to serve all other protocols and is above the transport
layer. The Record protocol offers symmetric encryption, data
authenticity, and optionally compression.
```

```
<p>The Alert protocol offers some signaling to the other protocols. It
can help informing the peer for the cause of failures and other error
conditions. See <a href="#The-Alert-Protocol">The Alert Protocol</a>, for more information. The
alert protocol is above the record protocol.
```

```
<p>The Handshake protocol is responsible for the security parameters'
negotiation, the initial key exchange and authentication. See <a href="#The-Handshake-Protocol">The Handshake
Protocol</a>, for more information about the handshake
protocol. The protocol layering in TLS is shown in the figure below.
```

```
<div class="block-image"></div>
```

```
<div class="node">
<a name="The-transport-layer"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#The-TLS-record-protocol">The TLS record protocol</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#TLS-layers">TLS layers</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Introduction-to-TLS">Introduction to TLS</a>
```

</div>

<h3 class="section">3.2 The Transport Layer</h3>

<p>

<acronym>TLS</acronym> is not limited to one transport layer, it can be used above any transport layer, as long as it is a reliable one. A set of functions is provided and their purpose is to load to <acronym>GnuTLS</acronym> the required callbacks to access the transport layer.

gnutls_transport_set_push_function

gnutls_transport_set_pull_function

gnutls_transport_set_ptr

gnutls_transport_set_lowat

gnutls_transport_set_errno

<p>These functions accept a callback function as a parameter. The callback functions should return the number of bytes written, or -1 on error and should set <code>errno</code> appropriately.

<p>In some environments, setting <code>errno</code> is unreliable, for example Windows have several errno variables in different CRTs, or it may be that errno is not a thread-local variable. If this is a concern to you, call <code>gnutls_transport_set_errno</code> with the intended errno value instead of setting <code>errno</code> directly.

<p><acronym>GnuTLS</acronym> currently only interprets the EINTR and EAGAIN errno values and returns the corresponding <acronym>GnuTLS</acronym> error codes <code>GNUTLS_E_INTERRUPTED</code> and <code>GNUTLS_E_AGAIN</code>. These values are usually returned by interrupted system calls, or when non blocking IO is used. All <acronym>GnuTLS</acronym> functions can be resumed (called again), if any of these error codes is returned. The error codes above refer to the system call, not the <acronym>GnuTLS</acronym> function, since signals do not interrupt <acronym>GnuTLS</acronym>' functions.

<p>For non blocking sockets or other custom made pull/push functions the gnutls_transport_set_lowat must be called, with a zero low water mark value.

<p>By default, if the transport functions are not set, <acronym>GnuTLS</acronym> will use the Berkeley Sockets functions. In this case <acronym>GnuTLS</acronym> will use some hacks in order for <code>select</code> to work, thus making it easy to add <acronym>TLS</acronym> support to existing TCP/IP servers.

```
<div class="node">
<a name="The-TLS-record-protocol"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#The-TLS-Alert-Protocol">The TLS Alert Protocol</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#The-transport-layer">The transport layer</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Introduction-to-TLS">Introduction to TLS</a>

</div>
```

<h3 class="section">3.3 The TLS Record Protocol</h3>

```
<p><a name="index-Record-protocol-9"></a>
The Record protocol is the secure communications provider. Its purpose
is to encrypt, authenticate and &mdash;optionally&mdash; compress packets.
The following functions are available:
```

```
<dl>
<dt><a href="#gnutls_005frecord_005frecord_005frecord_005fsend">gnutls_record_send</a>:<dd>To send a record packet (with
application data).

<br><dt><a href="#gnutls_005frecord_005frecord_005frecord_005frecv">gnutls_record_recv</a>:<dd>To receive a record packet (with
application data).

<br><dt><a href="#gnutls_005frecord_005frecord_005frecord_005fdirection">gnutls_record_get_direction</a>:<dd>To get the
direction of the last interrupted function call.
</dl>
```

```
<p>As you may have already noticed, the functions which access the Record
protocol, are quite limited, given the importance of this protocol in
<acronym>TLS</acronym>. This is because the Record protocol's parameters are
all set by the Handshake protocol.
```

```
<p>The Record protocol initially starts with NULL parameters, which means
no encryption, and no MAC is used. Encryption and authentication begin
just after the handshake protocol has finished.
```

```
<ul class="menu">
<li><a accesskey="1" href="#Encryption-algorithms-used-in-the-record-layer">Encryption algorithms used in the
record layer</a>
<li><a accesskey="2" href="#Compression-algorithms-used-in-the-record-layer">Compression algorithms used in
the record layer</a>
<li><a accesskey="3" href="#Weaknesses-and-countermeasures">Weaknesses and countermeasures</a>
</ul>
```

```
<div class="node">
<a name="Encryption-algorithms-used-in-the-record-layer"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Compression-algorithms-used-in-the-record-layer">Compression
```

algorithms used in the record layer

Up: [The TLS record protocol](#)

3.3.1 Encryption Algorithms Used in the Record Layer

Confidentiality in the record layer is achieved by using symmetric block encryption algorithms like `3DES`, `AES`, or stream algorithms like `ARCFOUR_128`. Ciphers are encryption algorithms that use a single, secret, key to encrypt and decrypt data. Block algorithms in TLS also provide protection against statistical analysis of the data. Thus, if you're using the `TLS` protocol, a random number of blocks will be appended to data, to prevent eavesdroppers from guessing the actual data size.

Supported cipher algorithms:

- `3DES_CBC` is the DES block cipher algorithm used with triple encryption (EDE). Has 64 bits block size and is used in CBC mode.
- `ARCFOUR_128` is a fast stream cipher.
- `ARCFOUR_40` This is the ARCFOUR cipher that is fed with a 40 bit key, which is considered weak.
- `AES_CBC` AES or RIJNDAEL is the block cipher algorithm that replaces the old DES algorithm. Has 128 bits block size and is used in CBC mode. This is not officially supported in TLS.

Supported MAC algorithms:

- `MAC_MD5` MD5 is a cryptographic hash algorithm designed by Ron Rivest. Outputs 128 bits of data.
- `MAC_SHA` SHA is a cryptographic hash algorithm designed by NSA. Outputs 160 bits of data.

[Compression algorithms used in the record layer](#)

<p><hr>
Next: Weaknesses and countermeasures,
Previous: Encryption algorithms used in the record layer,
Up: The TLS record protocol

</div>

3.3.2 Compression Algorithms Used in the Record Layer</h4>

<p>
The TLS record layer also supports compression. The algorithms implemented in <acronym>GnuTLS</acronym> can be found in the table below. All the algorithms except for DEFLATE which is referenced in [RFC3749] (see Bibliography), should be considered as <acronym>GnuTLS</acronym>' extensions¹⁰, and should be advertised only when the peer is known to have a compliant client, to avoid interoperability problems.

<p>The included algorithms perform really good when text, or other compressible data are to be transferred, but offer nothing on already compressed data, such as compressed images, zipped archives etc. These compression algorithms, may be useful in high bandwidth TLS tunnels, and in cases where network usage has to be minimized. As a drawback, compression increases latency.

<p>The record layer compression in <acronym>GnuTLS</acronym> is implemented based on the proposal [RFC3749] (see Bibliography). The supported compression algorithms are:

<dl>
<dt><code>DEFLATE</code><dd>Zlib compression, using the deflate algorithm.

<dt><code>LZO</code><dd>LZO is a very fast compression algorithm. This algorithm is only available if the <acronym>GnuTLS-extra</acronym> library has been initialized and the private extensions are enabled, and if GnuTLS was built with LZO support.

</dl>

<div class="node">

<p><hr>
Previous: Compression algorithms used in the record layer,
Up: The TLS record protocol

</div>

<h4 class="subsection">3.3.3 Weaknesses and Countermeasures</h4>

<p>Some weaknesses that may affect the security of the Record layer have been found in <acronym>TLS</acronym> 1.0 protocol. These weaknesses can be exploited by active attackers, and exploit the facts that

<ol type=1 start=1>

<acronym>TLS</acronym> has separate alerts for “decryption_failed” and “bad_record_mac”;

The decryption failure reason can be detected by timing the response time.

The IV for CBC encrypted packets is the last block of the previous encrypted packet.

<p>Those weaknesses were solved in <acronym>TLS</acronym> 1.1 [RFC4346] (see Bibliography) which is implemented in <acronym>GnuTLS</acronym>. For a detailed discussion see the archives of the TLS Working Group mailing list and the paper [CBCATT] (see Bibliography).

<div class="node">

<p><hr>

Next: The TLS Handshake Protocol,&br/>Previous: The TLS record protocol,&br/>Up: Introduction to TLS

</div>

<h3 class="section">3.4 The TLS Alert Protocol</h3>

<p>

The Alert protocol is there to allow signals to be sent between peers. These signals are mostly used to inform the peer about the cause of a protocol failure. Some of these signals are used internally by the protocol and the application protocol does not have to cope with them (see <code>GNUTLS_A_CLOSE_NOTIFY</code>), and others refer to the application protocol solely (see <code>GNUTLS_A_USER_CANCELLED</code>). An alert signal includes a level indication which may be either fatal or warning. Fatal alerts always terminate the current connection, and prevent future renegotiations using the current session ID.

The alert messages are protected by the record protocol, thus the information that is included does not leak. You must take extreme care for the alert information not to leak to a possible attacker, via public log files etc.

[gnutls_alert_send](#): To send an alert signal.

[gnutls_error_to_alert](#): To map a gnutls error number to an alert signal.

[gnutls_alert_get](#): Returns the last received alert.

[gnutls_alert_get_name](#): Returns the name, in a character array, of the given alert.

[The-TLS-Handshake-Protocol](#)

Next: [TLS Extensions](#),
Previous: [The-TLS-Alert-Protocol](#),
Up: [Introduction to TLS](#)

3.5 The TLS Handshake Protocol

[The-Handshake-Protocol](#) [index-Handshake-protocol-13](#)

The Handshake protocol is responsible for the ciphersuite negotiation, the initial key exchange, and the authentication of the two peers. This is fully controlled by the application layer, thus your program has to set up the required parameters. Available functions to control the handshake protocol include:

[gnutls_priority_init](#): To initialize a priority set of ciphers.

[gnutls_priority_deinit](#): To deinitialize a priority set of ciphers.

[gnutls_priority_set](#): To associate a priority set with a [TLS](#) session.

[gnutls_priority_set_direct](#): To directly associate a session with a given priority string.

[gnutls_credentials_set](#): To set the appropriate credentials structures.

[gnutls_certificate_server_set_request](#): To set whether client certificate is required or not.

[gnutls_handshake](#): To initiate the handshake.

3.5.1 TLS Cipher Suites

The Handshake Protocol of [TLS](#) negotiates cipher suites of the form `TLS_DHE_RSA_WITH_3DES_CBC_SHA`. The usual cipher suites contain these parameters:

- The key exchange algorithm.
`DHE_RSA` in the example.
- The Symmetric encryption algorithm and mode.
`3DES_CBC` in this example.
- The MAC [11](#) algorithm used for authentication.
`MAC_SHA` is used in the above example.

The cipher suite negotiated in the handshake protocol will affect the Record Protocol, by enabling encryption and data authentication. Note that you should not over rely on [TLS](#) to negotiate the strongest available cipher suite. Do not enable ciphers and algorithms that you consider weak.

The priority functions, discussed above, allow the application layer to enable and set priorities on the individual ciphers. It may imply that all combinations of ciphersuites are allowed, but this is not true. For several reasons, not discussed here, some combinations were not defined in the [TLS](#) protocol. The supported ciphersuites are shown in [ciphersuites](#).

3.5.2 Client Authentication

[index-Client-Certificate-authentication-14](#)
In the case of ciphersuites that use certificate authentication, the authentication of the client is optional in [TLS](#). A server

may request a certificate from the client — using the

[gnutls_certificate_server_set_request](#) function. If a

certificate is to be requested from the client during the handshake,

the server will send a certificate request message that contains a

list of acceptable certificate signers. In [GnuTLS](#) the certificate

signers list is constructed using the trusted Certificate Authorities by the

server. That is the ones set using

- [gnutls_certificate_set_x509_trust_file](#)
- [gnutls_certificate_set_x509_trust_mem](#)

Sending of the names of the CAs can be controlled using

[gnutls_certificate_send_x509_rdn_sequence](#). The client, then,

may send a certificate, signed by one of the server's acceptable signers.

3.5.3 Resuming Sessions

[gnutls_handshake](#) function, is expensive since a lot of

calculations are performed. In order to support many fast connections

to the same server a client may use session resuming. **Session**

resuming is a feature of the [TLS](#) protocol which allows a

client to connect to a server, after a successful handshake, without

the expensive calculations. This is achieved by using the previously

established keys. [GnuTLS](#) supports this feature, and the

example (see [ex:resume-client](#)) illustrates a typical use of it.

Keep in mind that sessions are expired after some time, for security

reasons, thus it may be normal for a server not to resume a session

even if you requested that. Also note that you must enable, using the

priority functions, at least the algorithms used in the last session.

3.5.4 Resuming Internals

The resuming capability, mostly in the server side, is one of the

problems of a thread-safe TLS implementations. The problem is that all

threads must share information in order to be able to resume

sessions. The gnutls approach is, in case of a client, to leave all

the burden of resuming to the client. I.e., copy and keep the necessary

parameters. See the functions:

```

<ul>
<li><a href="#gnutls_005fsession_005fget_005fdata">gnutls_session_get_data</a>

    <li><a href="#gnutls_005fsession_005fget_005fid">gnutls_session_get_id</a>

    <li><a href="#gnutls_005fsession_005fset_005fdata">gnutls_session_set_data</a>

</ul>

```

<p>The server side is different. A server has to specify some callback functions which store, retrieve and delete session data. These can be registered with:

```

<ul>
<li><a href="#gnutls_005fdb_005fset_005fremove_005ffunction">gnutls_db_set_remove_function</a>

    <li><a href="#gnutls_005fdb_005fset_005fstore_005ffunction">gnutls_db_set_store_function</a>

    <li><a href="#gnutls_005fdb_005fset_005fretrieve_005ffunction">gnutls_db_set_retrieve_function</a>

    <li><a href="#gnutls_005fdb_005fset_005fptr">gnutls_db_set_ptr</a>

</ul>

```

<p>It might also be useful to be able to check for expired sessions in order to remove them, and save space. The function gnutls_db_check_entry is provided for that reason.

```

<div class="node">
<a name="TLS-Extensions"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Selecting-cryptographic-key-sizes">Selecting cryptographic key
sizes</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#The-TLS-Handshake-Protocol">The TLS Handshake
Protocol</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Introduction-to-TLS">Introduction to TLS</a>

</div>

```

<h3 class="section">3.6 TLS Extensions</h3>

<p>
A number of extensions to the <acronym>TLS</acronym> protocol have been proposed mainly in [TLSEXT] (see Bibliography). The extensions supported in <acronym>GnuTLS</acronym> are:

```

<ul>
<li>Maximum fragment length negotiation

```

Server name indication

<p>and they will be discussed in the subsections that follow.

<h4 class="subsection">3.6.1 Maximum Fragment Length Negotiation</h4>

<p>
This extension allows a <acronym>TLS</acronym> implementation to negotiate a smaller value for record packet maximum length. This extension may be useful to clients with constrained capabilities. See the gnutls_record_set_max_size and the gnutls_record_get_max_size functions.

<h4 class="subsection">3.6.2 Server Name Indication</h4>

<p>

A common problem in <acronym>HTTPS</acronym> servers is the fact that the <acronym>TLS</acronym> protocol is not aware of the hostname that a client connects to, when the handshake procedure begins. For that reason the <acronym>TLS</acronym> server has no way to know which certificate to send.

<p>This extension solves that problem within the <acronym>TLS</acronym> protocol, and allows a client to send the HTTP hostname before the handshake begins within the first handshake packet. The functions gnutls_server_name_set and gnutls_server_name_get can be used to enable this extension, or to retrieve the name sent by a client.

<div class="node">

<p><hr>

Next: On SSL 2 and older protocols,&br/>

Previous: TLS Extensions,&br/>

Up: Introduction to TLS

</div>

<h3 class="section">3.7 Selecting Cryptographic Key Sizes</h3>

<p>

In TLS, since a lot of algorithms are involved, it is not easy to set a consistent security level. For this reason this section will present some correspondance between key sizes of symmetric algorithms and public key algorithms based on the most conservative values of [SELKEY] (see Bibliography).

Those can be used to generate certificates with appropriate key sizes as well as parameters for Diffie-Hellman and SRP authentication.

```

<p><table summary="">
<tr align="left"><td valign="top" width="15%">Year
</td><td valign="top" width="20%">Symmetric key size
</td><td valign="top" width="20%">RSA key size, DH and SRP prime size
</td><td valign="top" width="20%">ECC key size

<p><br></td></tr><tr align="left"><td valign="top" width="15%">1982
</td><td valign="top" width="20%">56
</td><td valign="top" width="20%">417
</td><td valign="top" width="20%">105

<p><br></td></tr><tr align="left"><td valign="top" width="15%">1988
</td><td valign="top" width="20%">61
</td><td valign="top" width="20%">566
</td><td valign="top" width="20%">114

<p><br></td></tr><tr align="left"><td valign="top" width="15%">2002
</td><td valign="top" width="20%">72
</td><td valign="top" width="20%">1028
</td><td valign="top" width="20%">139

<p><br></td></tr><tr align="left"><td valign="top" width="15%">2015
</td><td valign="top" width="20%">82
</td><td valign="top" width="20%">1613
</td><td valign="top" width="20%">173

<p><br></td></tr><tr align="left"><td valign="top" width="15%">2028
</td><td valign="top" width="20%">92
</td><td valign="top" width="20%">2362
</td><td valign="top" width="20%">210

<p><br></td></tr><tr align="left"><td valign="top" width="15%">2040
</td><td valign="top" width="20%">101
</td><td valign="top" width="20%">3214
</td><td valign="top" width="20%">244

<p><br></td></tr><tr align="left"><td valign="top" width="15%">2050
</td><td valign="top" width="20%">109
</td><td valign="top" width="20%">4047
</td><td valign="top" width="20%">272

<br></td></tr></table>

```

The first column provides an estimation of the year until these parameters are considered safe and the rest of the columns list the parameters for the

various algorithms.

Note however that the values suggested here are nothing more than an educated guess that is valid today. There are no guarantees that an algorithm will remain unbreakable or that these values will remain constant in time. There could be scientific breakthroughs that cannot be predicted or total failure of the current public key systems by quantum computers. On the other hand though the cryptosystems used in TLS are selected in a conservative way and such catastrophic breakthroughs or failures are believed to be unlikely.

NIST publication SP 800-57 [NISTSP80057] (see [Bibliography](#Bibliography)) contains a similar table that extends beyond the key sizes given above.

Bits of security	Symmetric key algorithms	RSA key size, DSA, DH and SRP prime size	ECC key size
------------------	--------------------------	--	--------------

80	2TDEA	1024	160-223
----	-------	------	---------

112	3DES	2048	224-255
-----	------	------	---------

128	AES-128	3072	256-383
-----	---------	------	---------

192	AES-192	7680	384-511
-----	---------	------	---------

256	AES-256	15360	512+
-----	---------	-------	------

The recommendations are fairly consistent.

```
<div class="node">
<a name="On-SSL-2-and-older-protocols"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#On-Record-Padding">On Record Padding</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Selecting-cryptographic-key-sizes">Selecting
cryptographic key sizes</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Introduction-to-TLS">Introduction to TLS</a>

</div>
```

<h3 class="section">3.8 On SSL 2 and Older Protocols</h3>

```
<p><a name="index-SSL-2-22"></a>
```

One of the initial decisions in the <acronym>GnuTLS</acronym> development was to implement the known security protocols for the transport layer. Initially <acronym>TLS</acronym> 1.0 was implemented since it was the latest at that time, and was considered to be the most advanced in security properties. Later the <acronym>SSL</acronym> 3.0 protocol was implemented since it is still the only protocol supported by several servers and there are no serious security vulnerabilities known.

<p>One question that may arise is why we didn't implement <acronym>SSL</acronym> 2.0 in the library. There are several reasons, most important being that it has serious security flaws, unacceptable for a modern security library. Other than that, this protocol is barely used by anyone these days since it has been deprecated since 1996. The security problems in <acronym>SSL</acronym> 2.0 include:

-
Message integrity compromised.
The <acronym>SSLv2</acronym> message authentication uses the MD5 function, and is insecure.

There is no protection of the handshake in <acronym>SSLv2</acronym>, which permits a man-in-the-middle attack.
<acronym>SSLv2</acronym> relies on TCP FIN to close the session, so the attacker can forge a TCP FIN, and the peer cannot tell if it was a legitimate end of data or not.
The cryptographic keys in <acronym>SSLv2</acronym> are used for both message authentication and encryption, so if weak encryption schemes are negotiated (say 40-bit keys) the message authentication code use the same weak key, which isn't necessary.

<p>Other protocols such as Microsoft's <acronym>PCT</acronym> 1 and <acronym>PCT</acronym> 2 were not implemented because they were also abandoned and deprecated by <acronym>SSL</acronym> 3.0 and later <acronym>TLS</acronym> 1.0.

<div class="node">

<p><hr>

Previous: On SSL 2 and older protocols,&br/>

Up: Introduction to TLS

</div>

<h3 class="section">3.9 On Record Padding</h3>

<p>

The TLS protocol allows for random padding of records, to make it more difficult to perform analysis on the length of exchanged messages. (In RFC 4346 this is specified in section 6.2.3.2.) GnuTLS appears to be one of few implementation that take advantage of this text, and pad records by a random length.

<p>The TLS implementation in the Symbian operating system, frequently used by Nokia and Sony-Ericsson mobile phones, cannot handle non-minimal record padding. What happens when one of these clients handshake with a GnuTLS server is that the client will fail to compute the correct MAC for the record. The client sends a TLS alert (<code>bad_record_mac</code>) and disconnects. Typically this will result in error messages such as 'A TLS fatal alert has been received', 'Bad record MAC', or both, on the GnuTLS server side.

<p>GnuTLS implements a work around for this problem. However, it has to be enabled specifically. It can be enabled by using gnutls_record_disable_padding, or gnutls_priority_set with the <code>%COMPAT</code> priority string.

<p>If you implement an application that have a configuration file, we recommend that you make it possible for users or administrators to specify a GnuTLS protocol priority string, which is used by your application via gnutls_priority_set. To allow the best flexibility, make it possible to have a different priority string for different incoming IP addresses.

<p>To enable the workaround in the <code>gnutls-cli</code> client or the

`gnutls-serv` server, for testing of other implementations, use the following parameter: `--priority "%COMPAT"`.

This problem has been discussed on mailing lists and in bug reports. This section tries to collect all pieces of information that we know about the problem. If you wish to go back to the old discussions, here are some links:

<http://bugs.debian.org/390712>

<http://bugs.debian.org/402861>

<http://bugs.debian.org/438137>

<http://thread.gmane.org/gmane.ietf.tls/3079>

`<div class="node">`

``

`<p><hr>`

`Next: More on certificate authentication`,

`Previous: Introduction to TLS`,

`Up: Top`

`</div>`

`<h2 class="chapter">4 Authentication Methods</h2>`

The `TLS` protocol provides confidentiality and encryption, but also offers authentication, which is a prerequisite for a secure connection. The available authentication methods in `GnuTLS` are:

``

`Certificate authentication`

`Anonymous authentication`

`<code>SRP</code> authentication`

`<code>PSK</code> authentication`

``

`<ul class="menu">`

`Certificate authentication`

`Anonymous authentication`

`Authentication using SRP`

- Authentication using PSK
- Authentication and credentials
- Parameters stored in credentials

<div class="node">

<p><hr>

Next: Anonymous authentication,&br/>Up: Authentication methods

</div>

</div>

4.1 Certificate Authentication</h3>

4.1.1 Authentication Using <acronym>X.509</acronym> Certificates</h4>

<p>

<acronym>X.509</acronym> certificates contain the public parameters, of a public key algorithm, and an authority's signature, which proves the authenticity of the parameters. See The X.509 trust model, for more information on <acronym>X.509</acronym> protocols.

4.1.2 Authentication Using <acronym>OpenPGP</acronym> Keys</h4>

<p>

<acronym>OpenPGP</acronym> keys also contain public parameters of a public key algorithm, and signatures from several other parties. Depending on whether a signer is trusted the key is considered trusted or not. <acronym>GnuTLS</acronym>'s <acronym>OpenPGP</acronym> authentication implementation is based on the [TLSPGP] (see Bibliography) proposal.

<p>See The OpenPGP trust model, for more information about the <acronym>OpenPGP</acronym> trust model. For a more detailed introduction to <acronym>OpenPGP</acronym> and <acronym>GnuPG</acronym> see [GPGH] (see Bibliography).

4.1.3 Using Certificate Authentication</h4>

<p>In <acronym>GnuTLS</acronym> both the <acronym>OpenPGP</acronym> and <acronym>X.509</acronym> certificates are part of the certificate authentication and thus are handled using a common API.

<p>When using certificates the server is required to have at least one certificate and private key pair. A client may or may not have such a pair. The certificate and key pair should be loaded, before any <acronym>TLS</acronym> session is initialized, in a certificate credentials

structure. This should be done by using

[gnutls_certificate_set_x509_key_file](#)

or

[gnutls_certificate_set_openpgp_key_file](#)

depending on the

certificate type. In the X.509 case, the functions will

also accept and use a certificate list that leads to a trusted

authority. The certificate list must be ordered in such way that every

certificate certifies the one before it. The trusted authority's

certificate need not to be included, since the peer should possess it

already.

As an alternative, a callback may be used so the server or the client

specify the certificate and the key at the handshake time. That

callback can be set using the functions:

-

- [gnutls_certificate_server_set_retrieve_function](#)
- [gnutls_certificate_client_set_retrieve_function](#)

Certificate verification is possible by loading the trusted

authorities into the credentials structure by using

[gnutls_certificate_set_x509_trust_file](#)

or

[gnutls_certificate_set_openpgp_keyring_file](#)

for openpgp

keys. Note however that the peer's certificate is not automatically

verified, you should call [gnutls_certificate_verify_peers2](#),

after a successful handshake, to verify the signatures of the

certificate. An alternative way, which reports a more detailed

verification output, is to use [gnutls_certificate_get_peers](#)

to

obtain the raw certificate of the peer and verify it using the

functions discussed in [The X.509 trust model](#).

In a handshake, the negotiated cipher suite depends on the

certificate's parameters, so not all key exchange methods will be

available with some certificates. GnuTLS will disable

ciphersuites that are not compatible with the key, or the enabled authentication methods. For example keys marked as sign-only, will not be able to access the plain RSA ciphersuites, but only the `DHE_RSA` ones. It is recommended not to use RSA keys for both signing and encryption. If possible use the same key for the `DHE_RSA` and `RSA_EXPORT` ciphersuites, which use signing, and a different key for the plain RSA ciphersuites, which use encryption. All the key exchange methods shown below are available in certificate authentication.

Note that the DHE key exchange methods are generally slower¹² than plain RSA and require Diffie Hellman parameters to be generated and associated with a credentials structure, by the server. The `RSA-EXPORT` method also requires 512 bit RSA parameters, that should also be generated and associated with the credentials structure. See the functions:

- [gnutls_dh_params_generate2](#)
- [gnutls_certificate_set_dh_params](#)
- [gnutls_rsa_params_generate2](#)
- [gnutls_certificate_set_rsa_export_params](#)

Sometimes in order to avoid bottlenecks in programs it is useful to store and read parameters from formats that can be generated by external programs such as `certtool`. This is possible with `GnuTLS` by using the following functions:

- [gnutls_dh_params_import_pkcs3](#)
- [gnutls_rsa_params_import_pkcs1](#)
- [gnutls_dh_params_export_pkcs3](#)
- [gnutls_rsa_params_export_pkcs1](#)

Key exchange algorithms for `OpenPGP` and `X.509` certificates:

<dl>
<dt><code>RSA:</code><dd>The RSA algorithm is used to encrypt a key and send it to the peer.
The certificate must allow the key to be used for encryption.

<dt><code>RSA_EXPORT:</code><dd>The RSA algorithm is used to encrypt a key and send it to the peer.

In the EXPORT algorithm, the server signs temporary RSA parameters of 512 bits — which are considered weak — and sends them to the client.

<dt><code>DHE_RSA:</code><dd>The RSA algorithm is used to sign Ephemeral Diffie-Hellman parameters which are sent to the peer. The key in the certificate must allow the key to be used for signing. Note that key exchange algorithms which use Ephemeral Diffie-Hellman parameters, offer perfect forward secrecy. That means that even if the private key used for signing is compromised, it cannot be used to reveal past session data.

<dt><code>DHE_DSS:</code><dd>The DSS algorithm is used to sign Ephemeral Diffie-Hellman parameters which are sent to the peer. The certificate must contain DSA parameters to use this key exchange algorithm. DSS stands for Digital Signature Standard.

</dl>

<div class="node">

<p><hr>

Next: Authentication using SRP,
Previous: Certificate authentication,
Up: Authentication methods

</div>

<h3 class="section">4.2 Anonymous Authentication</h3>

<p>

The anonymous key exchange performs encryption but there is no indication of the identity of the peer. This kind of authentication is vulnerable to a man in the middle attack, but this protocol can be used even if there is no prior communication and trusted parties with the peer, or when full anonymity is required. Unless really required, do not use anonymous authentication. Available key exchange methods are shown below.

<p>Note that the key exchange methods for anonymous authentication require Diffie-Hellman parameters to be generated by the server and associated with

an anonymous credentials structure.

Supported anonymous key exchange algorithms:

```
<dl>
<dt><code>ANON_DH:</code><dd>This algorithm exchanges Diffie-Hellman parameters.
</dl>
```

```
<div class="node">
<a name="Authentication-using-SRP"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Authentication-using-PSK">Authentication using PSK</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Anonymous-authentication">Anonymous
authentication</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Authentication-methods">Authentication methods</a>
</div>
```

4.3 Authentication using SRP

Authentication via the Secure Remote Password protocol, SRP¹³, is supported. The SRP key exchange is an extension to the TLS protocol, and it is a password based authentication (unlike X.509 or OpenPGP that use certificates). The two peers can be identified using a single password, or there can be combinations where the client is authenticated using SRP and the server using a certificate.

The advantage of SRP authentication, over other proposed secure password authentication schemes, is that SRP does not require the server to hold the user's password. This kind of protection is similar to the one used traditionally in the `UNIX` `/etc/passwd` file, where the contents of this file did not cause harm to the system security if they were revealed. The SRP needs instead of the plain password something called a verifier, which is calculated using the user's password, and if stolen cannot be used to impersonate the user. Check [TOMSRP] (see Bibliography) for a detailed description of the SRP protocol and the Stanford SRP libraries, which includes a PAM module that synchronizes the system's users passwords with the SRP password files. That way SRP authentication could be used for all the system's users.

The implementation in GnuTLS is based on paper [TLSSRP] (see Bibliography). The supported SRP key

exchange methods are:

- <dl>
 - <dt><code>SRP:</code><dd>Authentication using the <acronym>SRP</acronym> protocol.
 -
<dt><code>SRP_DSS:</code><dd>Client authentication using the <acronym>SRP</acronym> protocol.
Server is authenticated using a certificate with DSA parameters.
 -
<dt><code>SRP_RSA:</code><dd>Client authentication using the <acronym>SRP</acronym> protocol.
Server is authenticated using a certificate with RSA parameters.</dl>

<p>If clients supporting <acronym>SRP</acronym> know the username and password before the connection, should initialize the client credentials and call the function gnutls_srp_set_client_credentials. Alternatively they could specify a callback function by using the function gnutls_srp_set_client_credentials_function. This has the advantage that allows probing the server for <acronym>SRP</acronym> support. In that case the callback function will be called twice per handshake. The first time is before the ciphersuite is negotiated, and if the callback returns a negative error code, the callback will be called again if <acronym>SRP</acronym> has been negotiated. This uses a special <acronym>TLS</acronym>-<acronym>SRP</acronym> handshake idiom in order to avoid, in interactive applications, to ask the user for <acronym>SRP</acronym> password and username if the server does not negotiate an <acronym>SRP</acronym> ciphersuite.

<p>In server side the default behaviour of <acronym>GnuTLS</acronym> is to read the usernames and <acronym>SRP</acronym> verifiers from password files. These password files are the ones used by the Stanford srp libraries and can be specified using the gnutls_srp_set_server_credentials_file. If a different password file format is to be used, then the function gnutls_srp_set_server_credentials_function, should be called, in order to set an appropriate callback.

<p>Some helper functions such as

```
<ul>
<li><a href="#gnutls_005fsrp_005fverifier">gnutls_srp_verifier</a>

<li><a href="#gnutls_005fsrp_005fbase64_005fencode">gnutls_srp_base64_encode</a>

<li><a href="#gnutls_005fsrp_005fbase64_005fdecode">gnutls_srp_base64_decode</a>

</ul>
```

are included in `GnuTLS`, and can be used to generate and maintain `SRP` verifiers and password files. A program to manipulate the required parameters for `SRP` authentication is also included. See `srptool`, for more information.

```
<div class="node">
<a name="Authentication-using-PSK"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Authentication-and-credentials">Authentication and
credentials</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Authentication-using-SRP">Authentication using
SRP</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Authentication-methods">Authentication methods</a>

</div>
```

4.4 Authentication using `PSK`

`index-g_t_0040acronym_007bPSK_007d-authentication-30`

Authentication using Pre-shared keys is a method to authenticate using usernames and binary keys. This protocol avoids making use of public key infrastructure and expensive calculations, thus it is suitable for constraint clients.

The implementation in `GnuTLS` is based on paper [TLSPSK] (see `Bibliography`). The supported `PSK` key exchange methods are:

```
<dl>
<dt><code>PSK:</code><dd>Authentication using the <acronym>PSK</acronym> protocol.

<br><dt><code>DHE-PSK:</code><dd>Authentication using the <acronym>PSK</acronym> protocol and
Diffie-Hellman key exchange.
This method offers perfect forward secrecy.

</dl>
```

Clients supporting `PSK` should supply the username and key before the connection to the client credentials by calling the function `gnutls_psk_set_client_credentials`.

Alternatively they could specify a callback function by using the function [gnutls_psk_set_client_credentials_function](#).

This has the advantage that the callback will be called only if [PSK](#) has been negotiated.

In server side the default behaviour of [GnuTLS](#) is to read the usernames and [PSK](#) keys from a password file. The password file should contain usernames and keys in hexadecimal format. The name of the password file can be stored to the credentials structure by calling

[gnutls_psk_set_server_credentials_file](#).

If a different

password file format is to be used, then the function

[gnutls_psk_set_server_credentials_function](#), should be used instead.

The server can help the client chose a suitable username and password, by sending a hint. In the server, specify the hint by calling

[gnutls_psk_set_server_credentials_hint](#).

The client can retrieve

the hint, for example in the callback function, using

[gnutls_psk_client_get_hint](#).

There is no standard mechanism to derive a PSK key from a password specified by the TLS PSK document. However, [GnuTLS](#) provides

[gnutls_psk_netconf_derive_key](#) which follows the algorithm

specified in [draft-ietf-netconf-tls-02.txt](#).

Some helper functions such as:

- [gnutls_hex_encode](#)
- [gnutls_hex_decode](#)

are included in [GnuTLS](#), and may be used to generate and maintain [PSK](#) keys.

<p><hr>
Next: Parameters stored in credentials,
Previous: Authentication using PSK,
Up: Authentication methods

</div>

4.5 Authentication and Credentials

In <acronym>GnuTLS</acronym> every key exchange method is associated with a credentials type. So in order to enable to enable a specific method, the corresponding credentials type should be initialized and set using gnutls_credentials_set. A mapping is shown below.

Key exchange algorithms and the corresponding credential types:

Key exchange	Client credentials	Server credentials
<code>KX_RSA</code>	<code>CRD_CERTIFICATE</code>	<code>CRD_CERTIFICATE</code>
<code>KX_DHE_RSA</code>	<code>CRD_CERTIFICATE</code>	<code>CRD_CERTIFICATE</code>
<code>KX_DHE_DSS</code>	<code>CRD_CERTIFICATE</code>	<code>CRD_CERTIFICATE</code>
<code>KX_RSA_EXPORT</code>	<code>CRD_CERTIFICATE</code>	<code>CRD_CERTIFICATE</code>
<code>KX_SRP_RSA</code>	<code>CRD_SRP</code>	<code>CRD_SRP</code>
<code>KX_SRP_DSS</code>	<code>CRD_SRP</code>	<code>CRD_SRP</code>
<code>KX_ANON_DH</code>	<code>CRD_ANON</code>	<code>CRD_ANON</code>
<code>KX_PSK</code>	<code>CRD_PSK</code>	<code>CRD_PSK</code>

</td></tr></table>

<div class="node">

<p><hr>

Previous: Authentication and credentials,&br/>Up: Authentication methods

</div>

4.6 Parameters Stored in Credentials

Several parameters such as the ones used for Diffie-Hellman authentication are stored within the credentials structures, so all sessions can access them. Those parameters are stored in structures such as `gnutls_dh_params_t` and `gnutls_rsa_params_t`, and functions like [gnutls_certificate_set_dh_params](#gnutls_005fcertificate_005fset_005fdh_005fparams) and [gnutls_certificate_set_rsa_export_params](#gnutls_005fcertificate_005fset_005frsa_005fexport_005fparams) can be used to associate those parameters with the given credentials structure.

Since those parameters need to be renewed from time to time and a global structure such as the credentials, may not be easy to modify since it is accessible by all sessions, an alternative interface is available using a callback function. This can be set using the [gnutls_certificate_set_params_function](#gnutls_005fcertificate_005fset_005fparams_005ffunction). An example is shown below.

```
<pre class="example"> #include <gnutls.h>
```

```
    gnutls_rsa_params_t rsa_params;  
    gnutls_dh_params_t dh_params;
```

```
/* This function will be called once a session requests DH  
 * or RSA parameters. The parameters returned (if any) will  
 * be used for the first handshake only.  
 */
```

```
static int get_params( gnutls_session_t session,  
                      gnutls_params_type_t type,  
                      gnutls_params_st *st)  
{  
    if (type == GNUTLS_PARAMS_RSA_EXPORT)  
        st->params.rsa_export = rsa_params;  
    else if (type == GNUTLS_PARAMS_DH)
```

```

    st-&gt;params.dh = dh_params;
else return -1;

st-&gt;type = type;
/* do not deinitialize those parameters.
*/
st-&gt;deinit = 0;

return 0;
}

int main()
{
    gnutls_certificate_credentials_t cert_cred;

    initialize_params();

    /* ...
    */

    gnutls_certificate_set_params_function( cert_cred, get_params);
}

```

[More on certificate authentication](#)

Next: [How to use TLS in application protocols](#),
 Previous: [Authentication methods](#),
 Up: [Top](#)

5 More on Certificate Authentication

[Certificate Authentication](#)
[index-Certificate-authentication-31](#)

- [The X.509 trust model](#)
- [The OpenPGP trust model](#)
- [Digital signatures](#)

[The X.509 trust model](#)
[The X.509 trust model](#)

Next: [The OpenPGP trust model](#),

Up: [More on certificate authentication](#)

</div>

5.1 The X.509 Trust Model

X.509 certificates</p>

The X.509 protocols rely on a hierarchical trust model. In this trust model Certification Authorities (CAs) are used to certify entities. Usually more than one certification authorities exist, and certification authorities may certify other authorities to issue certificates as well, following a hierarchical model.

One needs to trust one or more CAs for his secure communications. In that case only the certificates issued by the trusted authorities are acceptable. See the figure above for a typical example. The API for handling X.509 certificates is described at section [sec:x509api](#). Some examples are listed below.

<ul class="menu">

X.509 certificates

Verifying X.509 certificate paths

PKCS #10 certificate requests

PKCS #12 structures

<div class="node">

X.509 certificates</p>

X.509 certificates</p>

<p><hr>

Next: [Verifying X.509 certificate paths](#),

Up: [The X.509 trust model](#)

</div>

5.1.1 X.509 Certificates

An X.509 certificate usually contains information about the certificate holder, the signer, a unique serial number, expiration dates and some other fields [RFC3280] (see [Bibliography](#)) as shown in the table below.

<dl>

<dt><code>version:</code><dd>The field that indicates the version of the certificate.

<dt><code>serialNumber:</code></dd>This field holds a unique serial number per certificate.

<dt><code>issuer:</code></dd>Holds the issuer's distinguished name.

<dt><code>validity:</code></dd>The activation and expiration dates.

<dt><code>subject:</code></dd>The subject's distinguished name of the certificate.

<dt><code>extensions:</code></dd>The extensions are fields only present in version 3 certificates.

</dl>

<p>The certificate's subject or issuer name is not just a single string. It is a Distinguished name and in the <acronym>ASN.1</acronym> notation is a sequence of several object IDs with their corresponding values. Some of available OIDs to be used in an <acronym>X.509</acronym> distinguished name are defined in <samp>gnutls/x509.h</samp>.

<p>The Version field in a certificate has values either 1 or 3 for version 3 certificates. Version 1 certificates do not support the extensions field so it is not possible to distinguish a CA from a person, thus their usage should be avoided.

<p>The validity dates are there to indicate the date that the specific certificate was activated and the date the certificate's key would be considered invalid.

<p>Certificate extensions are there to include information about the certificate's subject that did not fit in the typical certificate fields. Those may be e-mail addresses, flags that indicate whether the belongs to a CA etc. All the supported <acronym>X.509</acronym> version 3 extensions are shown in the table below.

<dl>

<dt><code>subject key id (2.5.29.14):</code></dd>An identifier of the key of the subject.

<dt><code>authority key id (2.5.29.35):</code></dd>An identifier of the authority's key used to sign the certificate.

<dt><code>subject alternative name (2.5.29.17):</code></dd>Alternative names to subject's distinguished name.

<dt><code>key usage (2.5.29.15):</code></dd>Constraints the key's usage of the certificate.

<dt><code>extended key usage (2.5.29.37):</code></dd>Constraints the purpose of the certificate.

<dt><code>basic constraints (2.5.29.19):</code></dd>Indicates whether this is a CA certificate or not, and

specify the maximum path lengths of certificate chains.

`CRL distribution points (2.5.29.31):` This extension is set by the CA, in order to inform about the issued CRLs.

`Proxy Certification Information (1.3.6.1.5.5.7.1.14):` Proxy Certificates includes this extension that contains the OID of the proxy policy language used, and can specify limits on the maximum lengths of proxy chains. Proxy Certificates are specified in [RFC3820] (see [Bibliography](#)).

In `GnuTLS` the `X.509` certificate structures are handled using the `gnutls_x509_cert_t` type and the corresponding private keys with the `gnutls_x509_privkey_t` type. All the available functions for `X.509` certificate handling have their prototypes in `gnutls/x509.h`. An example program to demonstrate the `X.509` parsing capabilities can be found at section [ex:x509-info](#).

[Verifying X.509 certificate paths](#)

[Verifying X.509 certificate paths](#)

Next: [PKCS #10 certificate requests](#),

Previous: [X.509 certificates](#),

Up: [The X.509 trust model](#)

5.1.2 Verifying `X.509` Certificate Paths

[index-Verifying-certificate-paths-33](#)

Verifying certificate paths is important in `X.509` authentication. For this purpose the function `gnutls_x509_cert_verify` is provided. The output of this function is the bitwise OR of the elements of the `gnutls_certificate_status_t` enumeration. A detailed description of these elements can be found in figure below.

The function `gnutls_certificate_verify_peers2` is equivalent to the previous one, and will verify the peer's certificate in a TLS session.

`CERT_INVALID:` The certificate is not signed by one of the known authorities, or

the signature is invalid.

`CERT_REVOKED:` The certificate has been revoked by its CA.

`CERT_SIGNER_NOT_FOUND:` The certificate's issuer is not known. This is the case when the issuer is not in the trusted certificates list.

`GNUTLS_CERT_SIGNER_NOT_CA:` The certificate's signer was not a CA. This may happen if this was a version 1 certificate, which is common with some CAs, or a version 3 certificate without the basic constraints extension.

`GNUTLS_CERT_INSECURE_ALGORITHM:` The certificate was signed using an insecure algorithm such as MD2 or MD5. These algorithms have been broken and should not be trusted.

There is also a possibility to pass some input to the verification functions in the form of flags. For `gnutls_x509 crt_verify` the flags are passed straightforward, but `gnutls_certificate_verify_peers2` depends on the flags set by calling `gnutls_certificate_set_verify_flags`. All the available flags are part of the enumeration `gnutls_certificate_verify_flags` and are explained in the table below.

`gnutls_certificate_verify_flags` `index-gnutls_certificate_verify_flags-34`

`GNUTLS_VERIFY_DISABLE_CA_SIGN:` If set a signer does not have to be a certificate authority. This flag should normally be disabled, unless you know what this means.

`GNUTLS_VERIFY_ALLOW_X509_V1_CA_CRT:` Allow only trusted CA certificates that have version 1. This is safer than `GNUTLS_VERIFY_ALLOW_ANY_X509_V1_CA_CRT`, and should be used instead. That way only signers in your trusted list will be allowed to have certificates of version 1.

`GNUTLS_VERIFY_ALLOW_ANY_X509_V1_CA_CRT:` Allow CA certificates that have version 1 (both root and intermediate). This is dangerous since those haven't the

basicConstraints extension. Must be used in combination with
GNUTLS_VERIFY_ALLOW_X509_V1_CA_CERT.

`GNUTLS_VERIFY_DO_NOT_ALLOW_SAME:` If a certificate is not signed by anyone trusted but exists in the trusted CA list do not treat it as trusted.

`GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD2:` Allow certificates to be signed using the old MD2 algorithm.

`GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5:` Allow certificates to be signed using the broken MD5 algorithm.

Although the verification of a certificate path indicates that the certificate is signed by trusted authority, does not reveal anything about the peer's identity. It is required to verify if the certificate's owner is the one you expect. For more information consult [RFC2818] (see [Bibliography](#)) and section [ex.verify](#) for an example.

[PKCS-%2310-certificate-requests](#)

[PKCS-_002310-certificate-requests](#)

Next: [PKCS #12 structures](#),

Previous: [Verifying X.509 certificate paths](#),

Up: [The X.509 trust model](#)

5.1.3 [PKCS](#) #10 Certificate Requests

[index-Certificate-requests-35](#) [index-g_t_0040acronym_007bPKCS_007d-_002310-36](#)

A certificate request is a structure, which contain information about an applicant of a certificate service. It usually contains a private key, a distinguished name and secondary data such as a challenge password. [GnuTLS](#) supports the requests defined in [PKCS](#) #10 [RFC2986] (see [Bibliography](#)). Other certificate request's format such as PKIX's [RFC4211] (see [Bibliography](#)) are not currently supported.

In [GnuTLS](#) the [PKCS](#) #10 structures are handled using the `gnutls_x509_crq_t` type. An example of a certificate request generation can be found at section [ex.crq](#).

<div class="node">

<p><hr>
Previous: PKCS #10
certificate requests,
Up: The X.509 trust model
</div>

5.1.4 <acronym>PKCS</acronym> #12 Structures</h4>

<p>
A <acronym>PKCS</acronym> #12 structure [PKCS12] (see Bibliography) usually
contains a user's
private keys and certificates. It is commonly used in browsers to
export and import the user's identities.

<p>In <acronym>GnuTLS</acronym> the <acronym>PKCS</acronym> #12 structures are handled
using the <code>gnutls_pkcs12_t</code> type. This is an abstract type that
may hold several <code>gnutls_pkcs12_bag_t</code> types. The Bag types are
the holders of the actual data, which may be certificates, private
keys or encrypted data. An Bag of type encrypted should be decrypted
in order for its data to be accessed.

<p>An example of a <acronym>PKCS</acronym> #12 structure generation can be found
at section ex:pkcs12.

<div class="node">

<p><hr>
Next: Digital signatures,
Previous: The X.509 trust
model,
Up: More on certificate
authentication
</div>

5.2 The <acronym>OpenPGP</acronym> Trust Model</h3>

<p>
The <acronym>OpenPGP</acronym> key authentication relies on a distributed trust
model, called the “web of trust”. The “web of trust” uses a
decentralized system of trusted introducers, which are the same as a
CA. <acronym>OpenPGP</acronym> allows anyone to sign anyone's else public
key. When Alice signs Bob's key, she is introducing Bob's key to
anyone who trusts Alice. If someone trusts Alice to introduce keys,

then Alice is a trusted introducer in the mind of that observer.

<div class="block-image"></div>

<p>For example: If David trusts Alice to be an introducer, and Alice signed Bob's key, Dave also trusts Bob's key to be the real one.

<p>There are some key points that are important in that model. In the example Alice has to sign Bob's key, only if she is sure that the key belongs to Bob. Otherwise she may also make Dave falsely believe that this is Bob's key. Dave has also the responsibility to know who to trust. This model is similar to real life relations.

<p>Just see how Charlie behaves in the previous example. Although he has signed Bob's key - because he knows, somehow, that it belongs to Bob - he does not trust Bob to be an introducer. Charlie decided to trust only Kevin, for some reason. A reason could be that Bob is lazy enough, and signs other people's keys without being sure that they belong to the actual owner.

<h4 class="subsection">5.2.1 <acronym>OpenPGP</acronym> Keys</h4>

<p>In <acronym>GnuTLS</acronym> the <acronym>OpenPGP</acronym> key structures [RFC2440] (see Bibliography) are handled using the <code>gnutls_openpgp_cert_t</code> type and the corresponding private keys with the <code>gnutls_openpgp_privkey_t</code> type. All the prototypes for the key handling functions can be found at <samp>gnutls/openpgp.h</samp>.

<h4 class="subsection">5.2.2 Verifying an <acronym>OpenPGP</acronym> Key</h4>

<p>The verification functions of <acronym>OpenPGP</acronym> keys, included in <acronym>GnuTLS</acronym>, are simple ones, and do not use the features of the “web of trust”. For that reason, if the verification needs are complex, the assistance of external tools like <acronym>GnuPG</acronym> and GPGME (http://www.gnupg.org/related_software/gpgme/) is recommended.

<p>There is one verification function in <acronym>GnuTLS</acronym>, the gnutls_openpgp_cert_verify_ring. This checks an <acronym>OpenPGP</acronym> key against a given set of public keys (keyring) and returns the key status. The key verification status is the same as in <acronym>X.509</acronym> certificates, although the meaning and interpretation are different. For example an <acronym>OpenPGP</acronym> key may be valid, if the self signature is ok, even if no signers were found. The meaning of verification status is shown in the figure below.

<dl>
<dt><code>CERT_INVALID:</code><dd>A signature on the key is invalid. That means that the key was modified by somebody, or corrupted during transport.

<dt><code>CERT_REVOKED:</code><dd>The key has been revoked by its owner.

<dt><code>CERT_SIGNER_NOT_FOUND:</code><dd>The key was not signed by a known signer.

<dt><code>GNUTLS_CERT_INSECURE_ALGORITHM:</code><dd>The certificate was signed using an insecure algorithm such as MD2 or MD5.
These algorithms have been broken and should not be trusted.

</dl>

<div class="node">

<p><hr>
Previous: The OpenPGP trust model,
Up: More on certificate authentication

</div>

<h3 class="section">5.3 Digital Signatures</h3>

<p>
In this section we will provide some information about digital signatures, how they work, and give the rationale for disabling some of the algorithms used.

<p>Digital signatures work by using somebody's secret key to sign some arbitrary data. Then anybody else could use the public key of that person to verify the signature. Since the data may be arbitrary it is not suitable input to a cryptographic digital signature algorithm. For this reason and also for performance cryptographic hash algorithms are used to preprocess the input to the signature algorithm. This works as long as it is difficult enough to generate two different messages with the same hash algorithm output. In that case the same signature could be used as a proof for both messages. Nobody wants to sign an innocent message of donating 1 € to Greenpeace and find out that he donated 1.000.000 € to Bad Inc.

<p>For a hash algorithm to be called cryptographic the following three requirements must hold:

- <ol type=1 start=1>
Preimage resistance.

That means the algorithm must be one way and given the output of the hash function $H(x)$, it is impossible to calculate x .

- 2nd preimage resistance.

That means that given a pair x, y with $y=H(x)$ it is impossible to calculate an x' such that $y=H(x')$.

- Collision resistance.

That means that it is impossible to calculate random x and x' such $H(x')=H(x)$.

The last two requirements in the list are the most important in digital signatures. These protect against somebody who would like to generate two messages with the same hash output. When an algorithm is considered broken usually it means that the Collision resistance of the algorithm is less than brute force. Using the birthday paradox the brute force attack takes $2^{(hash\ size) / 2}$ operations. Today colliding certificates using the MD5 hash algorithm have been generated as shown in [WEGER] (see [Bibliography](#)).

There has been cryptographic results for the SHA-1 hash algorithms as well, although they are not yet critical. Before 2004, MD5 had a presumed collision strength of 2^{64} , but it has been showed to have a collision strength well under 2^{50} . As of November 2005, it is believed that SHA-1's collision strength is around 2^{63} . We consider this sufficiently hard so that we still support SHA-1. We anticipate that SHA-256/386/512 will be used in publicly-distributed certificates in the future. When 2^{63} can be considered too weak compared to the computer power available sometime in the future, SHA-1 will be disabled as well. The collision attacks on SHA-1 may also get better, given the new interest in tools for creating them.

5.3.1 Trading Security for Interoperability

If you connect to a server and use GnuTLS' functions to verify the certificate chain, and get a `GNUTLS_CERT_INSECURE_ALGORITHM` validation error (see [Verifying X.509 certificate paths](#)), it means that somewhere in the certificate chain there is a certificate signed using `RSA-MD2` or `RSA-MD5`. These two digital signature algorithms are considered broken, so GnuTLS fail when attempting to verify the certificate. In some situations, it may be useful to be able to verify the certificate chain anyway, assuming an attacker did

not utilize the fact that these signatures algorithms are broken.

This section will give help on how to achieve that.

First, it is important to know that you do not have to enable any of the flags discussed here to be able to use trusted root CA certificates signed using `RSA-MD2` or `RSA-MD5`. The only attack today is that it is possible to generate certificates with colliding signatures (collision resistance); you cannot generate a certificate that has the same signature as an already existing signature (2nd preimage resistance).

If you are using [gnutls_certificate_verify_peers2](#) to verify the

certificate chain, you can call

[gnutls_certificate_set_verify_flags](#) with the `GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD2` or `GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5` flag, as in:

```
gnutls_certificate_set_verify_flags(x509cred,
GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5);
```

This will tell the verifier algorithm to enable `RSA-MD5` when verifying the certificates.

If you are using [gnutls_x509 crt_verify](#) or [gnutls_x509 crt_list_verify](#), you can pass the `GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5` parameter directly in the `flags` parameter.

If you are using these flags, it may also be a good idea to warn the user when verification failure occur for this reason. The simplest is to not use the flags by default, and only fall back to using them after warning the user. If you wish to inspect the certificate chain yourself, you can use [gnutls_certificate_get_peers](#) to extract

the raw server's certificate chain, then use

[gnutls_x509 crt_import](#) to parse each of the certificates, and then use [gnutls_x509 crt_get_signature_algorithm](#)

to find out the

signing algorithm used for each certificate. If any of the

intermediary certificates are using `GNUTLS_SIGN_RSA_MD2` or

`GNUTLS_SIGN_RSA_MD5`, you could present a warning.

[How-to-use-TLS-in-application-protocols](#)

Next: [How to use GnuTLS in](#)

applications

Previous: [More on certificate authentication](#),

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6 How To Use [TLS](#) in Application Protocols

This chapter is intended to provide some hints on how to use the [TLS](#) over simple custom made application protocols. The discussion below mainly refers to the [TCP/IP](#) transport layer but may be extended to other ones too.

-

- [Separate ports](#)

- [Upward negotiation](#)

[Separate ports](#)

Next: [Upward negotiation](#),

Up: [How to use TLS in application protocols](#)

6.1 Separate Ports

Traditionally [SSL](#) was used in application protocols by assigning a new port number for the secure services. That way two separate ports were assigned, one for the non secure sessions, and one for the secured ones. This has the benefit that if a user requests a secure session then the client will try to connect to the secure port and fail otherwise. The only possible attack with this method is a denial of service one. The most famous example of this method is the famous ["HTTP over TLS"](#) or [HTTPS](#) protocol [RFC2818] (see [Bibliography](#)).

Despite its wide use, this method is not as good as it seems. This approach starts the [TLS](#) Handshake procedure just after the client connects on the [secure port](#). That way the [TLS](#) protocol does not know anything about the client, and popular methods like the host advertising in HTTP do not work [¹⁴](#). There is no way for the client to say [I](#)

connected to [YYY server](#), before the Handshake starts, so the server

cannot possibly know which certificate to use.

Other than that it requires two separate ports to run a single service, which is unnecessary complication. Due to the fact that there is a limitation on the available privileged ports, this approach was soon obsolete.

<div class="node">

<p><hr>

Previous: Separate ports,&

Up: How to use TLS in application protocols

</div>

6.2 Upward Negotiation</h3>

Other application protocols¹⁵ use a different approach to enable the secure layer. They use something called the “TLS upgrade” method. This method is quite tricky but it is more flexible. The idea is to extend the application protocol to have a “STARTTLS” request, whose purpose it to start the TLS protocols just after the client requests it. This is a really neat idea and does not require an extra port.

This method is used by almost all modern protocols and there is even the [RFC2817] (see Bibliography) paper which proposes extensions to HTTP to support it.

The tricky part, in this method, is that the “STARTTLS” request is sent in the clear, thus is vulnerable to modifications. A typical attack is to modify the messages in a way that the client is fooled and thinks that the server does not have the “STARTTLS” capability. See a typical conversation of a hypothetical protocol:

<blockquote>

(client connects to the server)

<p>CLIENT: HELLO I'M MR. XXX

<p>SERVER: NICE TO MEET YOU XXX

<p>CLIENT: PLEASE START TLS

<p>SERVER: OK

<p>*** TLS STARTS

<p>CLIENT: HERE ARE SOME CONFIDENTIAL DATA
</blockquote>

<p>And see an example of a conversation where someone is acting in between:

<blockquote>
(client connects to the server)

<p>CLIENT: HELLO I'M MR. XXX

<p>SERVER: NICE TO MEET YOU XXX

<p>CLIENT: PLEASE START TLS

<p>(here someone inserts this message)

<p>SERVER: SORRY I DON'T HAVE THIS CAPABILITY

<p>CLIENT: HERE ARE SOME CONFIDENTIAL DATA
</blockquote>

<p>As you can see above the client was fooled, and was dummy enough to send the confidential data in the clear.

<p>How to avoid the above attack? As you may have already thought this one is easy to avoid. The client has to ask the user before it connects whether the user requests <acronym>TLS</acronym> or not. If the user answered that he certainly wants the secure layer the last conversation should be:

<blockquote>
(client connects to the server)

<p>CLIENT: HELLO I'M MR. XXX

<p>SERVER: NICE TO MEET YOU XXX

<p>CLIENT: PLEASE START TLS

<p>(here someone inserts this message)

<p>SERVER: SORRY I DON'T HAVE THIS CAPABILITY

<p>CLIENT: BYE

<p>(the client notifies the user that the secure connection was not possible)
</blockquote>

<p>This method, if implemented properly, is far better than the traditional method, and the security properties remain the same, since only denial of service is possible. The benefit is that the server may request additional data before the <acronym>TLS</acronym> Handshake protocol starts, in order to send the correct certificate, use the correct password file¹⁶, or anything else!

<div class="node">

<p><hr>

Next: Included programs,&br/>Previous: How to use
TLS in application protocols,&br/>Up: Top

</div>

<h2 class="chapter">7 How To Use <acronym>GnuTLS</acronym> in Applications</h2>

<p>

<ul class="menu">

Preparation

Multi-threaded applications

Client examples

Server examples

Miscellaneous examples

Compatibility with the OpenSSL
library

Opaque PRF Input TLS Extension

Keying Material Exporters

<div class="node">

<p><hr>

Next: Multi-threaded
applications,&br/>Up: How to use GnuTLS in
applications

</div>

<h3 class="section">7.1 Preparation</h3>

<p>To use <acronym>GnuTLS</acronym>, you have to perform some changes to your sources and your build system. The necessary changes are explained in the following subsections.

```
<ul class="menu">
<li><a accesskey="1" href="#Headers">Headers</a>
<li><a accesskey="2" href="#Initialization">Initialization</a>
<li><a accesskey="3" href="#Version-check">Version check</a>
<li><a accesskey="4" href="#Debugging">Debugging</a>
<li><a accesskey="5" href="#Building-the-source">Building the source</a>
</ul>
```

```
<div class="node">
<a name="Headers"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Initialization">Initialization</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Preparation">Preparation</a>
```

```
</div>
```

<h4 class="subsection">7.1.1 Headers</h4>

<p>All the data types and functions of the <acronym>GnuTLS</acronym> library are defined in the header file <samp>gnutls/gnutls.h</samp>. This must be included in all programs that make use of the <acronym>GnuTLS</acronym> library.

<p>The extra functionality of the <acronym>GnuTLS-extra</acronym> library is available by including the header file <samp>gnutls/extra.h</samp> in your programs.

```
<div class="node">
<a name="Initialization"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Version-check">Version check</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Headers">Headers</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Preparation">Preparation</a>
```

```
</div>
```

<h4 class="subsection">7.1.2 Initialization</h4>

<p>GnuTLS must be initialized before it can be used. The library is initialized by calling gnutls_global_init. The resources allocated by the initialization process can be released if the application no longer has a need to call GnuTLS functions, this is done by calling gnutls_global_deinit.

<p>The extra functionality of the <acronym>GnuTLS-extra</acronym> library is available after calling gnutls_global_init_extra.

<p>In order to take advantage of the internationalisation features in GnuTLS, such as translated error messages, the application must set the current locale using <code>setlocale</code> before initializing GnuTLS.

```
<div class="node">
<a name="Version-check"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Debugging">Debugging</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Initialization">Initialization</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Preparation">Preparation</a>

</div>
```

<h4 class="subsection">7.1.3 Version Check</h4>

<p>It is often desirable to check that the version of `gnutls' used is indeed one which fits all requirements. Even with binary compatibility new features may have been introduced but due to problem with the dynamic linker an old version is actually used. So you may want to check that the version is okay right after program startup. See the function gnutls_check_version.

```
<div class="node">
<a name="Debugging"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Building-the-source">Building the source</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Version-check">Version check</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Preparation">Preparation</a>

</div>
```

<h4 class="subsection">7.1.4 Debugging</h4>

<p>In many cases things may not go as expected and further information, to assist debugging, from <acronym>GnuTLS</acronym> is desired. Those are the case where the gnutls_global_set_log_level and gnutls_global_set_log_function are to be used. Those will print verbose information on the <acronym>GnuTLS</acronym> functions internal flow.

```
<div class="node">
<a name="Building-the-source"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Debugging">Debugging</a>,</p>
```

Up: [Preparation](#Preparation)

7.1.5 Building the Source

If you want to compile a source file including the `gnutls/gnutls.h` header file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is located to the compilers include file search path (via the `-I` option).

However, the path to the include file is determined at the time the source is configured. To solve this problem, the library uses the external package `pkg-config` that knows the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the `--cflags` option to `pkg-config libgnutls`. The following example shows how it can be used at the command line:

```
gcc -c foo.c `pkg-config libgnutls --cflags`
```

Adding the output of `pkg-config libgnutls --cflags` to the compilers command line will ensure that the compiler can find the `gnutls/gnutls.h` header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the `-L` option). For this, the option `--libs` to `pkg-config libgnutls` can be used. For convenience, this option also outputs all other options that are required to link the program with the library (for instance, the `-lgnutls` option). The example shows how to link `foo.o` with the library to a program `foo`.

```
gcc -o foo foo.o `pkg-config libgnutls --libs`
```

Of course you can also combine both examples to a single command by specifying both options to `pkg-config`:

```
gcc -o foo foo.c `pkg-config libgnutls --cflags --libs`
```



```

<div class="node">
<a name="Multi-threaded-applications"></a>
<a name="Multi_002dthreaded-applications"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Client-examples">Client examples</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Preparation">Preparation</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#How-to-use-GnuTLS-in-applications">How to use GnuTLS in
applications</a>

</div>

```

7.2 Multi-Threaded Applications

Although the `GnuTLS` library is thread safe by design, some parts of `Libgcrypt`, such as the random generator, are not. Applications have to register callback functions to ensure proper locking in the sensitive parts of `libgcrypt`.

There are helper macros to help you properly initialize the libraries. Examples are shown below.

```

<ul>
<li>POSIX threads
<pre class="example">    #include <gnutls.h>
    #include <gcrypt.h>
    #include <errno.h>
    #include <pthread.h>
    GCRY_THREAD_OPTION_PTHREAD_IMPL;

    int main()
    {
        /* The order matters.
        */
        gcry_control (GCRYCTL_SET_THREAD_CBS, &gcry_threads_pthread);
        gnutls_global_init();
    }
</pre>
<li>GNU PTH threads
<pre class="example">    #include <gnutls.h>
    #include <gcrypt.h>
    #include <errno.h>
    #include <pth.h>
    GCRY_THREAD_OPTION_PTH_IMPL;

    int main()
    {
        gcry_control (GCRYCTL_SET_THREAD_CBS, &gcry_threads_pth);
        gnutls_global_init();
    }

```

```

    }
</pre>
<li>Other thread packages
<pre class="example">    /* The gcry_thread_cbs structure must have been
    * initialized.
    */
    static struct gcry_thread_cbs gcry_threads_other = { ... };

    int main()
    {
        gcry_control (GCRYCTL_SET_THREAD_CBS, &gcry_threads_other);
    }
</pre>
</ul>

```

```

<div class="node">
<a name="Client-examples"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Server-examples">Server examples</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Multi_002dthreaded-applications">Multi-threaded
applications</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#How-to-use-GnuTLS-in-applications">How to use GnuTLS in
applications</a>

</div>

```

7.3 Client Examples

This section contains examples of [TLS](#) and [SSL](#) clients, using [GnuTLS](#). Note that these examples contain little or no error checking. Some of the examples require functions implemented by another example.

- Simple client example with anonymous authentication
- Simple client example with X.509 certificate support
- Obtaining session information
- Verifying peer's certificate
- Using a callback to select the certificate to use
- Client with Resume capability example
- Simple client example with SRP authentication
- Simple client example with TLS/IA support

```
<li><a accesskey="9" href="#Simple-client-example-in-C_002b_002b">Simple client example in C++</a>
<li><a href="#Helper-function-for-TCP-connections">Helper function for TCP connections</a>
</ul>
```

```
<div class="node">
<a name="Simple-client-example-with-anonymous-authentication"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Simple-client-example-with-X_002e509-certificate-
support">Simple client example with X.509 certificate support</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Client-examples">Client examples</a>

</div>
```

<h4 class="subsection">7.3.1 Simple Client Example with Anonymous Authentication</h4>

<p>The simplest client using TLS is the one that doesn't do any authentication. This means no external certificates or passwords are needed to set up the connection. As could be expected, the connection is vulnerable to man-in-the-middle (active or redirection) attacks. However, the data is integrity and privacy protected.

```
<pre class="verbatim">/* This example code is placed in the public domain. */
```

```
#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <unistd.h>
#include <gnutls/gnutls.h>

/* A very basic TLS client, with anonymous authentication.
*/

#define MAX_BUF 1024
#define MSG "GET / HTTP/1.0\r\n\r\n"

extern int tcp_connect (void);
extern void tcp_close (int sd);

int
main (void)
{
```

```

int ret, sd, ii;
gnutls_session_t session;
char buffer[MAX_BUF + 1];
gnutls_anon_client_credentials_t anoncred;
/* Need to enable anonymous KX specifically. */

gnutls_global_init ();

gnutls_anon_allocate_client_credentials (&anoncred);

/* Initialize TLS session
*/
gnutls_init (&session, GNUTLS_CLIENT);

/* Use default priorities */
gnutls_priority_set_direct (session, "PERFORMANCE:+ANON-DH:!ARCFOUR-128",
    NULL);

/* put the anonymous credentials to the current session
*/
gnutls_credentials_set (session, GNUTLS_CRD_ANON, anoncred);

/* connect to the peer
*/
sd = tcp_connect ();

gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);

/* Perform the TLS handshake
*/
ret = gnutls_handshake (session);

if (ret < 0)
{
    fprintf (stderr, "*** Handshake failed\n");
    gnutls_perror (ret);
    goto end;
}
else
{
    printf ("- Handshake was completed\n");
}

gnutls_record_send (session, MSG, strlen (MSG));

ret = gnutls_record_recv (session, buffer, MAX_BUF);
if (ret == 0)
{

```

```

    printf ("- Peer has closed the TLS connection\n");
    goto end;
}
else if (ret &lt; 0)
{
    fprintf (stderr, "*** Error: %s\n", gnutls_strerror (ret));
    goto end;
}

printf ("- Received %d bytes: ", ret);
for (ii = 0; ii &lt; ret; ii++)
{
    fputc (buffer[ii], stdout);
}
fputs ("\n", stdout);

gnutls_bye (session, GNUTLS_SHUT_RDWR);

end:

tcp_close (sd);

gnutls_deinit (session);

gnutls_anon_free_client_credentials (anoncred);

gnutls_global_deinit ();

return 0;
}

```

</pre>

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<p><hr>

Next: Obtaining session information,&

Previous: Simple client example with anonymous authentication,&

Up: Client examples

</div>

<h4 class="subsection">7.3.2 Simple Client Example with <acronym>X.509</acronym> Certificate Support</h4>

<p>Let's assume now that we want to create a TCP client which communicates with servers that use <acronym>X.509</acronym> or <acronym>OpenPGP</acronym> certificate authentication. The following client is

a very simple <acronym>TLS</acronym> client, it does not support session resuming, not even certificate verification. The TCP functions defined in this example are used in most of the other examples below, without redefining them.

```
<pre class="verbatim"> /* This example code is placed in the public domain. */

#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <unistd.h>
#include <gnutls/gnutls.h>

/* A very basic TLS client, with X.509 authentication.
*/

#define MAX_BUF 1024
#define CAFILE "ca.pem"
#define MSG "GET / HTTP/1.0\r\n\r\n"

extern int tcp_connect (void);
extern void tcp_close (int sd);

int
main (void)
{
    int ret, sd, ii;
    gnutls_session_t session;
    char buffer[MAX_BUF + 1];
    const char *err;
    gnutls_certificate_credentials_t xcred;

    gnutls_global_init ();

    /* X509 stuff */
    gnutls_certificate_allocate_credentials (&xcred);

    /* sets the trusted cas file
    */
    gnutls_certificate_set_x509_trust_file (xcred, CAFILE, GNUTLS_X509_FMT_PEM);
```

```

/* Initialize TLS session
*/
gnutls_init (&session, GNUTLS_CLIENT);

/* Use default priorities */
ret = gnutls_priority_set_direct (session, "PERFORMANCE", &err);
if (ret &lt; 0)
{
    if (ret == GNUTLS_E_INVALID_REQUEST)
    {
        fprintf (stderr, "Syntax error at: %s\n", err);
    }
    exit (1);
}

/* put the x509 credentials to the current session
*/
gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, xcred);

/* connect to the peer
*/
sd = tcp_connect ();

gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);

/* Perform the TLS handshake
*/
ret = gnutls_handshake (session);

if (ret &lt; 0)
{
    fprintf (stderr, "*** Handshake failed\n");
    gnutls_perror (ret);
    goto end;
}
else
{
    printf ("- Handshake was completed\n");
}

gnutls_record_send (session, MSG, strlen (MSG));

ret = gnutls_record_recv (session, buffer, MAX_BUF);
if (ret == 0)
{
    printf ("- Peer has closed the TLS connection\n");
    goto end;
}

```

```

else if (ret &lt; 0)
{
    fprintf (stderr, "*** Error: %s\n", gnutls_strerror (ret));
    goto end;
}

```

```

printf ("- Received %d bytes: ", ret);
for (ii = 0; ii &lt; ret; ii++)
{
    fputc (buffer[ii], stdout);
}
fputs ("\n", stdout);

```

```

gnutls_bye (session, GNUTLS_SHUT_RDWR);

```

```

end:

```

```

tcp_close (sd);

```

```

gnutls_deinit (session);

```

```

gnutls_certificate_free_credentials (xcred);

```

```

gnutls_global_deinit ();

```

```

return 0;
}

```

```

</pre>

```

```

<div class="node">

```

```

<a name="Obtaining-session-information"></a>

```

```

<p><hr>

```

```

Next:&nbsp;<a rel="next" accesskey="n" href="#Verifying-peer_0027s-certificate">Verifying peer's
certificate</a>,

```

```

Previous:&nbsp;<a rel="previous" accesskey="p" href="#Simple-client-example-with-X_002e509-certificate-
support">Simple client example with X.509 certificate support</a>,

```

```

Up:&nbsp;<a rel="up" accesskey="u" href="#Client-examples">Client examples</a>

```

```

</div>

```

```

<h4 class="subsection">7.3.3 Obtaining Session Information</h4>

```

```

<p>Most of the times it is desirable to know the security properties of
the current established session. This includes the underlying ciphers
and the protocols involved. That is the purpose of the following
function. Note that this function will print meaningful values only
if called after a successful <a href="#gnutls_005fhandshake">gnutls_handshake</a>.

```

```

<pre class="verbatim">/* This example code is placed in the public domain. */

```



```

#ifdef HAVE_CONFIG_H
#include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <gnutls/gnutls.h>
#include <gnutls/x509.h>

#include "examples.h"

/* This function will print some details of the
 * given session.
 */
int
print_info (gnutls_session_t session)
{
    const char *tmp;
    gnutls_credentials_type_t cred;
    gnutls_kx_algorithm_t kx;

    /* print the key exchange's algorithm name
     */
    kx = gnutls_kx_get (session);
    tmp = gnutls_kx_get_name (kx);
    printf ("- Key Exchange: %s\n", tmp);

    /* Check the authentication type used and switch
     * to the appropriate.
     */
    cred = gnutls_auth_get_type (session);
    switch (cred)
    {
        case GNUTLS_CRD_IA:
            printf ("- TLS/IA session\n");
            break;

#ifdef ENABLE_SRP
        case GNUTLS_CRD_SRP:
            printf ("- SRP session with username %s\n",
                gnutls_srp_server_get_username (session));
            break;
#endif

        case GNUTLS_CRD_PSK:
            /* This returns NULL in server side.

```

```

    */
    if (gnutls_psk_client_get_hint (session) != NULL)
printf ("- PSK authentication. PSK hint '%s\n",
gnutls_psk_client_get_hint (session));
    /* This returns NULL in client side.
    */
    if (gnutls_psk_server_get_username (session) != NULL)
printf ("- PSK authentication. Connected as '%s\n",
gnutls_psk_server_get_username (session));
    break;

case GNUTLS_CRD_ANON: /* anonymous authentication */

    printf ("- Anonymous DH using prime of %d bits\n",
gnutls_dh_get_prime_bits (session));
    break;

case GNUTLS_CRD_CERTIFICATE: /* certificate authentication */

    /* Check if we have been using ephemeral Diffie-Hellman.
    */
    if (kx == GNUTLS_KX_DHE_RSA || kx == GNUTLS_KX_DHE_DSS)
    {
    printf ("\n- Ephemeral DH using prime of %d bits\n",
gnutls_dh_get_prime_bits (session));
    }

    /* if the certificate list is available, then
    * print some information about it.
    */
    print_x509_certificate_info (session);

} /* switch */

/* print the protocol's name (ie TLS 1.0)
*/
tmp = gnutls_protocol_get_name (gnutls_protocol_get_version (session));
printf ("- Protocol: %s\n", tmp);

/* print the certificate type of the peer.
* ie X.509
*/
tmp =
gnutls_certificate_type_get_name (gnutls_certificate_type_get (session));

printf ("- Certificate Type: %s\n", tmp);

/* print the compression algorithm (if any)

```

```

*/
tmp = gnutls_compression_get_name (gnutls_compression_get (session));
printf ("- Compression: %s\n", tmp);

/* print the name of the cipher used.
 * ie 3DES.
 */
tmp = gnutls_cipher_get_name (gnutls_cipher_get (session));
printf ("- Cipher: %s\n", tmp);

/* Print the MAC algorithms name.
 * ie SHA1
 */
tmp = gnutls_mac_get_name (gnutls_mac_get (session));
printf ("- MAC: %s\n", tmp);

return 0;
}

```

</pre>

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<p><hr>

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callback to select the certificate to use,&

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<h4 class="subsection">7.3.4 Verifying Peer's Certificate</h4>

<p>A <acronym>TLS</acronym> session is not secure just after the handshake
procedure has finished. It must be considered secure, only after the
peer's certificate and identity have been verified. That is, you have
to verify the signature in peer's certificate, the hostname in the
certificate, and expiration dates. Just after this step you should
treat the connection as being a secure one.

<pre class="verbatim">/* This example code is placed in the public domain. */

```

#ifdef HAVE_CONFIG_H

```

```

# include <config.h>

```

```

#endif

```

```

#include <stdio.h>

```

```

#include <gnutls/gnutls.h>

```

```

#include <gnutls/x509.h>

#include "examples.h"

/* This function will try to verify the peer's certificate, and
 * also check if the hostname matches, and the activation, expiration dates.
 */
void
verify_certificate (gnutls_session_t session, const char *hostname)
{
    unsigned int status;
    const gnutls_datum_t *cert_list;
    unsigned int cert_list_size;
    int ret;
    gnutls_x509_cert_t cert;

    /* This verification function uses the trusted CAs in the credentials
     * structure. So you must have installed one or more CA certificates.
     */
    ret = gnutls_certificate_verify_peers2 (session, &status);

    if (ret &lt; 0)
    {
        printf ("Error\n");
        return;
    }

    if (status & GNUTLS_CERT_INVALID)
        printf ("The certificate is not trusted.\n");

    if (status & GNUTLS_CERT_SIGNER_NOT_FOUND)
        printf ("The certificate hasn't got a known issuer.\n");

    if (status & GNUTLS_CERT_REVOKED)
        printf ("The certificate has been revoked.\n");

    /* Up to here the process is the same for X.509 certificates and
     * OpenPGP keys. From now on X.509 certificates are assumed. This can
     * be easily extended to work with openpgp keys as well.
     */
    if (gnutls_certificate_type_get (session) != GNUTLS_CERT_X509)
        return;

    if (gnutls_x509_cert_init (&cert) &lt; 0)
    {
        printf ("error in initialization\n");
    }
}

```

```

    return;
}

cert_list = gnutls_certificate_get_peers (session, &cert_list_size);
if (cert_list == NULL)
{
    printf ("No certificate was found!\n");
    return;
}

/* This is not a real world example, since we only check the first
 * certificate in the given chain.
 */
if (gnutls_x509_cert_import (cert, &cert_list[0], GNUTLS_X509_FMT_DER) &lt; 0)
{
    printf ("error parsing certificate\n");
    return;
}

/* Beware here we do not check for errors.
 */
if (gnutls_x509_cert_get_expiration_time (cert) &lt; time (0))
{
    printf ("The certificate has expired\n");
    return;
}

if (gnutls_x509_cert_get_activation_time (cert) > time (0))
{
    printf ("The certificate is not yet activated\n");
    return;
}

if (!gnutls_x509_cert_check_hostname (cert, hostname))
{
    printf ("The certificate's owner does not match hostname '%s'\n",
        hostname);
    return;
}

gnutls_x509_cert_deinit (cert);

return;
}
</pre>

```

An other example is listed below which provides a more detailed verification output.

```
<pre class="verbatim"> /* This example code is placed in the public domain. */
```

```
#ifdef HAVE_CONFIG_H
# include <config.h>
#endif
```

```
#include <stdio.h>
#include <stdlib.h>
#include <gnutls/gnutls.h>
#include <gnutls/x509.h>
```

```
#include "examples.h"
```

```
/* All the available CRLs
*/
gnutls_x509_crl_t *crl_list;
int crl_list_size;
```

```
/* All the available trusted CAs
*/
gnutls_x509_cert_t *ca_list;
int ca_list_size;
```

```
static void verify_cert2 (gnutls_x509_cert_t crt,
    gnutls_x509_cert_t issuer,
    gnutls_x509_crl_t * crl_list, int crl_list_size);
static void verify_last_cert (gnutls_x509_cert_t crt,
    gnutls_x509_cert_t * ca_list, int ca_list_size,
    gnutls_x509_crl_t * crl_list,
    int crl_list_size);
```

```
/* This function will try to verify the peer's certificate chain, and
* also check if the hostname matches, and the activation, expiration dates.
*/
```

```
void
verify_certificate_chain (gnutls_session_t session,
    const char *hostname,
    const gnutls_datum_t * cert_chain,
    int cert_chain_length)
{
    int i;
    gnutls_x509_cert_t *cert;
```

```
cert = malloc (sizeof (*cert) * cert_chain_length);
```

```
/* Import all the certificates in the chain to
* native certificate format.
```

```

*/
for (i = 0; i < cert_chain_length; i++)
{
    gnutls_x509_cert_init (&cert[i]);
    gnutls_x509_cert_import (cert[i], &cert_chain[i], GNUTLS_X509_FMT_DER);
}

/* If the last certificate in the chain is self signed ignore it.
* That is because we want to check against our trusted certificate
* list.
*/
if (gnutls_x509_cert_check_issuer (cert[cert_chain_length - 1],
    cert[cert_chain_length - 1]) > 0
    && cert_chain_length > 0)
{
    cert_chain_length--;
}

/* Now verify the certificates against their issuers
* in the chain.
*/
for (i = 1; i < cert_chain_length; i++)
{
    verify_cert2 (cert[i - 1], cert[i], crl_list, crl_list_size);
}

/* Here we must verify the last certificate in the chain against
* our trusted CA list.
*/
verify_last_cert (cert[cert_chain_length - 1],
    ca_list, ca_list_size, crl_list, crl_list_size);

/* Check if the name in the first certificate matches our destination!
*/
if (!gnutls_x509_cert_check_hostname (cert[0], hostname))
{
    printf ("The certificate's owner does not match hostname '%s'\n",
        hostname);
}

for (i = 0; i < cert_chain_length; i++)
    gnutls_x509_cert_deinit (cert[i]);

return;
}

/* Verifies a certificate against an other certificate

```

```

* which is supposed to be it's issuer. Also checks the
* crl_list if the certificate is revoked.
*/
static void
verify_cert2 (gnutls_x509_cert_t crt, gnutls_x509_cert_t issuer,
              gnutls_x509_crl_t *crl_list, int crl_list_size)
{
    unsigned int output;
    int ret;
    time_t now = time (0);
    size_t name_size;
    char name[64];

    /* Print information about the certificates to
    * be checked.
    */
    name_size = sizeof (name);
    gnutls_x509_cert_get_dn (crt, name, &name_size);

    fprintf (stderr, "\nCertificate: %s\n", name);

    name_size = sizeof (name);
    gnutls_x509_cert_get_issuer_dn (crt, name, &name_size);

    fprintf (stderr, "Issued by: %s\n", name);

    /* Get the DN of the issuer cert.
    */
    name_size = sizeof (name);
    gnutls_x509_cert_get_dn (issuer, name, &name_size);

    fprintf (stderr, "Checking against: %s\n", name);

    /* Do the actual verification.
    */
    gnutls_x509_cert_verify (crt, &issuer, 1, 0, &output);

    if (output & GNUTLS_CERT_INVALID)
    {
        fprintf (stderr, "Not trusted");

        if (output & GNUTLS_CERT_SIGNER_NOT_FOUND)
            fprintf (stderr, ": no issuer was found");
        if (output & GNUTLS_CERT_SIGNER_NOT_CA)
            fprintf (stderr, ": issuer is not a CA");

        fprintf (stderr, "\n");
    }
}

```



```

else
    fprintf (stderr, "Trusted\n");

/* Now check the expiration dates.
*/
if (gnutls_x509_cert_get_activation_time (crt) > now)
    fprintf (stderr, "Not yet activated\n");

if (gnutls_x509_cert_get_expiration_time (crt) &lt; now)
    fprintf (stderr, "Expired\n");

/* Check if the certificate is revoked.
*/
ret = gnutls_x509_cert_check_revocation (crt, crl_list, crl_list_size);
if (ret == 1)
    { /* revoked */
        fprintf (stderr, "Revoked\n");
    }
}

/* Verifies a certificate against our trusted CA list.
* Also checks the crl_list if the certificate is revoked.
*/
static void
verify_last_cert (gnutls_x509_cert_t crt,
    gnutls_x509_cert_t * ca_list, int ca_list_size,
    gnutls_x509_crl_t * crl_list, int crl_list_size)
{
    unsigned int output;
    int ret;
    time_t now = time (0);
    size_t name_size;
    char name[64];

/* Print information about the certificates to
* be checked.
*/
    name_size = sizeof (name);
    gnutls_x509_cert_get_dn (crt, name, &name_size);

    fprintf (stderr, "\nCertificate: %s\n", name);

    name_size = sizeof (name);
    gnutls_x509_cert_get_issuer_dn (crt, name, &name_size);

    fprintf (stderr, "Issued by: %s\n", name);

```

```

/* Do the actual verification.
*/
gnutls_x509_cert_verify (crt, ca_list, ca_list_size,
    GNUTLS_VERIFY_ALLOW_X509_V1_CA_CRT, &output);

if (output & GNUTLS_CERT_INVALID)
{
    fprintf (stderr, "Not trusted");

    if (output & GNUTLS_CERT_SIGNER_NOT_CA)
        fprintf (stderr, ": Issuer is not a CA\n");
    else
        fprintf (stderr, "\n");
}
else
    fprintf (stderr, "Trusted\n");

```

```

/* Now check the expiration dates.
*/
if (gnutls_x509_cert_get_activation_time (crt) > now)
    fprintf (stderr, "Not yet activated\n");

if (gnutls_x509_cert_get_expiration_time (crt) < now)
    fprintf (stderr, "Expired\n");

```

```

/* Check if the certificate is revoked.
*/
ret = gnutls_x509_cert_check_revocation (crt, crl_list, crl_list_size);
if (ret == 1)
{
    /* revoked */
    fprintf (stderr, "Revoked\n");
}
}

```

</pre>

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<p><hr>

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<h4 class="subsection">7.3.5 Using a Callback to Select the Certificate to Use</h4>

<p>There are cases where a client holds several certificate and key pairs, and may not want to load all of them in the credentials structure. The following example demonstrates the use of the certificate selection callback.

```
<pre class="verbatim"> /* This example code is placed in the public domain. */
```

```
#ifndef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <unistd.h>
#include <gnutls/gnutls.h>
#include <gnutls/x509.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>

/* A TLS client that loads the certificate and key.
*/

#define MAX_BUF 1024
#define MSG "GET / HTTP/1.0\r\n\r\n"

#define CERT_FILE "cert.pem"
#define KEY_FILE "key.pem"
#define CAFILE "ca.pem"

extern int tcp_connect (void);
extern void tcp_close (int sd);

static int cert_callback (gnutls_session_t session,
    const gnutls_datum_t * req_ca_rdn, int nreqs,
    const gnutls_pk_algorithm_t * sign_algos,
    int sign_algos_length, gnutls_retr_st * st);

gnutls_x509_cert_t crt;
gnutls_x509_privkey_t key;

/* Helper functions to load a certificate and key
* files into memory.
```

```

*/
static gnutls_datum_t
load_file (const char *file)
{
    FILE *f;
    gnutls_datum_t loaded_file = { NULL, 0 };
    long filelen;
    void *ptr;

    if (!(f = fopen (file, "r"))
        || fseek (f, 0, SEEK_END) != 0
        || (filelen = ftell (f)) < 0
        || fseek (f, 0, SEEK_SET) != 0
        || !(ptr = malloc ((size_t) filelen))
        || fread (ptr, 1, (size_t) filelen, f) < (size_t) filelen)
    {
        return loaded_file;
    }

    loaded_file.data = ptr;
    loaded_file.size = (unsigned int) filelen;
    return loaded_file;
}

static void
unload_file (gnutls_datum_t data)
{
    free (data.data);
}

/* Load the certificate and the private key.
*/
static void
load_keys (void)
{
    int ret;
    gnutls_datum_t data;

    data = load_file (CERT_FILE);
    if (data.data == NULL)
    {
        fprintf (stderr, "*** Error loading cert file.\n");
        exit (1);
    }
    gnutls_x509_crt_init (& crt);

    ret = gnutls_x509_crt_import (crt, & data, GNUTLS_X509_FMT_PEM);
    if (ret < 0)

```

```

    {
        fprintf (stderr, "**** Error loading key file: %s\n",
            gnutls_strerror (ret));
        exit (1);
    }

unload_file (data);

data = load_file (KEY_FILE);
if (data.data == NULL)
    {
        fprintf (stderr, "**** Error loading key file.\n");
        exit (1);
    }

gnutls_x509_privkey_init (&key);

ret = gnutls_x509_privkey_import (key, &data, GNUTLS_X509_FMT_PEM);
if (ret &lt; 0)
    {
        fprintf (stderr, "**** Error loading key file: %s\n",
            gnutls_strerror (ret));
        exit (1);
    }

unload_file (data);

}

int
main (void)
{
    int ret, sd, ii;
    gnutls_session_t session;
    gnutls_priority_t priorities_cache;
    char buffer[MAX_BUF + 1];
    gnutls_certificate_credentials_t xcred;
    /* Allow connections to servers that have OpenPGP keys as well.
    */

    gnutls_global_init ();

    load_keys ();

    /* X509 stuff */
    gnutls_certificate_allocate_credentials (&xcred);

    /* priorities */

```

```

gnutls_priority_init (&priorities_cache, "NORMAL", NULL);

/* sets the trusted cas file
*/
gnutls_certificate_set_x509_trust_file (xcred, CAFILE, GNUTLS_X509_FMT_PEM);

gnutls_certificate_client_set_retrieve_function (xcred, cert_callback);

/* Initialize TLS session
*/
gnutls_init (&session, GNUTLS_CLIENT);

/* Use default priorities */
gnutls_priority_set (session, priorities_cache);

/* put the x509 credentials to the current session
*/
gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, xcred);

/* connect to the peer
*/
sd = tcp_connect ();

gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);

/* Perform the TLS handshake
*/
ret = gnutls_handshake (session);

if (ret < 0)
{
    fprintf (stderr, "*** Handshake failed\n");
    gnutls_perror (ret);
    goto end;
}
else
{
    printf ("- Handshake was completed\n");
}

gnutls_record_send (session, MSG, strlen (MSG));

ret = gnutls_record_recv (session, buffer, MAX_BUF);
if (ret == 0)
{
    printf ("- Peer has closed the TLS connection\n");
    goto end;
}

```

```

    }
else if (ret &lt; 0)
    {
        fprintf (stderr, "*** Error: %s\n", gnutls_strerror (ret));
        goto end;
    }

printf ("- Received %d bytes: ", ret);
for (ii = 0; ii &lt; ret; ii++)
    {
        fputc (buffer[ii], stdout);
    }
fputs ("\n", stdout);

gnutls_bye (session, GNUTLS_SHUT_RDWR);

end:

tcp_close (sd);

gnutls_deinit (session);

gnutls_certificate_free_credentials (xcred);
gnutls_priority_deinit (priorities_cache);

gnutls_global_deinit ();

return 0;
}

/* This callback should be associated with a session by calling
 * gnutls_certificate_client_set_retrieve_function( session, cert_callback),
 * before a handshake.
 */

static int
cert_callback (gnutls_session_t session,
               const gnutls_datum_t * req_ca_rdn, int nreqs,
               const gnutls_pk_algorithm_t * sign_algos,
               int sign_algos_length, gnutls_retr_st * st)
{
    char issuer_dn[256];
    int i, ret;
    size_t len;
    gnutls_certificate_type_t type;

```

```

/* Print the server's trusted CAs
*/
if (nreqs > 0)
    printf ("- Server's trusted authorities:\n");
else
    printf ("- Server did not send us any trusted authorities names.\n");

/* print the names (if any) */
for (i = 0; i < nreqs; i++)
{
    len = sizeof (issuer_dn);
    ret = gnutls_x509_rdn_get (&req_ca_rdn[i], issuer_dn, &len);
    if (ret >= 0)
    {
        printf (" [%d]: ", i);
        printf ("%s\n", issuer_dn);
    }
}

/* Select a certificate and return it.
* The certificate must be of any of the "sign algorithms"
* supported by the server.
*/

type = gnutls_certificate_type_get (session);
if (type == GNUTLS_CERT_X509)
{
    st->type = type;
    st->ncerts = 1;

    st->cert.x509 = &cert;
    st->key.x509 = key;

    st->deinit_all = 0;
}
else
{
    return -1;
}

return 0;
}

```

</pre>

<div class="node">

<p><hr>

Next: Simple client

example with SRP authentication,</p></div>
<div>
<p>Previous: Using a callback to select the certificate to use,</p></div>
<div>
<p>Up: Client examples</p></div>
<div>
<p></div>
<div>
<h4 class="subsection">7.3.6 Client with Resume Capability Example</h4></div>
<div>
<p>This is a modification of the simple client example. Here we demonstrate the use of session resumption. The client tries to connect once using <acronym>TLS</acronym>, close the connection and then try to establish a new connection using the previously negotiated data.</p></div>
<div>
<pre class="verbatim">*/ This example code is placed in the public domain. */</pre></div>
<div>
<pre>#ifdef HAVE_CONFIG_H
include <config.h>
#endif</pre></div>
<div>
<pre>#include <string.h>
#include <stdio.h>
#include <stdlib.h>
#include <gnutls/gnutls.h></pre></div>
<div>
<pre>/* Those functions are defined in other examples.
*/</pre></div>
<div>
<pre>extern void check_alert (gnutls_session_t session, int ret);
extern int tcp_connect (void);
extern void tcp_close (int sd);</pre></div>
<div>
<pre>#define MAX_BUF 1024
#define CAFILE "ca.pem"
#define MSG "GET / HTTP/1.0\r\n\r\n"</pre></div>
<div>
<pre>int
main (void)
{
int ret;
int sd, ii;
gnutls_session_t session;
char buffer[MAX_BUF + 1];
gnutls_certificate_credentials_t xcred;</pre></div>
<div>
<pre>/* variables used in session resuming
*/
int t;
char *session_data = NULL;</pre></div>
<div>
<p>Open Source Used In USC GAN R2.10 Application Software R2.10.34.9</p></div>
<div>
<p>313</p></div>

```

size_t session_data_size = 0;

gnutls_global_init ();

/* X509 stuff */
gnutls_certificate_allocate_credentials (&xcred);

gnutls_certificate_set_x509_trust_file (xcred, CAFILE, GNUTLS_X509_FMT_PEM);

for (t = 0; t < 2; t++)
{ /* connect 2 times to the server */

    sd = tcp_connect ();

    gnutls_init (&session, GNUTLS_CLIENT);

    gnutls_priority_set_direct (session, "PERFORMANCE:!ARCFOUR-128", NULL);

    gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, xcred);

    if (t > 0)
    {
        /* if this is not the first time we connect */
        gnutls_session_set_data (session, session_data, session_data_size);
        free (session_data);
    }

    gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);

    /* Perform the TLS handshake
    */
    ret = gnutls_handshake (session);

    if (ret < 0)
    {
        fprintf (stderr, "*** Handshake failed\n");
        gnutls_perror (ret);
        goto end;
    }
    else
    {
        printf ("- Handshake was completed\n");
    }

    if (t == 0)
    { /* the first time we connect */
        /* get the session data size */
        gnutls_session_get_data (session, NULL, &session_data_size);
    }
}

```

```

session_data = malloc (session_data_size);

/* put session data to the session variable */
gnutls_session_get_data (session, session_data, &session_data_size);

}
else
{ /* the second time we connect */

/* check if we actually resumed the previous session */
if (gnutls_session_is_resumed (session) != 0)
{
printf ("- Previous session was resumed\n");
}
else
{
fprintf (stderr, "*** Previous session was NOT resumed\n");
}
}

/* This function was defined in a previous example
*/
/* print_info(session); */

gnutls_record_send (session, MSG, strlen (MSG));

ret = gnutls_record_recv (session, buffer, MAX_BUF);
if (ret == 0)
{
printf ("- Peer has closed the TLS connection\n");
goto end;
}
else if (ret < 0)
{
fprintf (stderr, "*** Error: %s\n", gnutls_strerror (ret));
goto end;
}

printf ("- Received %d bytes: ", ret);
for (ii = 0; ii < ret; ii++)
{
fputc (buffer[ii], stdout);
}
fputs ("\n", stdout);

gnutls_bye (session, GNUTLS_SHUT_RDWR);

end:

```

```

tcp_close (sd);

gnutls_deinit (session);

} /* for() */

gnutls_certificate_free_credentials (xcred);

gnutls_global_deinit ();

return 0;
}

```

</pre>

Next: Simple client example with TLS/IA support,&br/>
Previous: Client with Resume capability example,&br/>
Up: Client examples

</div>

7.3.7 Simple Client Example with <acronym>SRP</acronym> Authentication</h4>

<p>The following client is a very simple <acronym>SRP</acronym> <acronym>TLS</acronym> client which connects to a server and authenticates using a username and a password. The server may authenticate itself using a certificate, and in that case it has to be verified.

```
<pre class="verbatim">*/ This example code is placed in the public domain. */
```

```

#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <gnutls/gnutls.h>
#include <gnutls/extra.h>

/* Those functions are defined in other examples.
*/
extern void check_alert (gnutls_session_t session, int ret);
extern int tcp_connect (void);

```

```

extern void tcp_close (int sd);

#define MAX_BUF 1024
#define USERNAME "user"
#define PASSWORD "pass"
#define CAFILE "ca.pem"
#define MSG "GET / HTTP/1.0\r\n\r\n"

int
main (void)
{
    int ret;
    int sd, ii;
    gnutls_session_t session;
    char buffer[MAX_BUF + 1];
    gnutls_srp_client_credentials_t srp_cred;
    gnutls_certificate_credentials_t cert_cred;

    gnutls_global_init ();

    /* now enable the gnutls-extra library which contains the
     * SRP stuff.
     */
    gnutls_global_init_extra ();

    gnutls_srp_allocate_client_credentials (&srp_cred);
    gnutls_certificate_allocate_credentials (&cert_cred);

    gnutls_certificate_set_x509_trust_file (cert_cred, CAFILE,
        GNUTLS_X509_FMT_PEM);
    gnutls_srp_set_client_credentials (srp_cred, USERNAME, PASSWORD);

    /* connects to server
     */
    sd = tcp_connect ();

    /* Initialize TLS session
     */
    gnutls_init (&session, GNUTLS_CLIENT);

    /* Set the priorities.
     */
    gnutls_priority_set_direct (session, "NORMAL:+SRP:+SRP-RSA:+SRP-DSS", NULL);

    /* put the SRP credentials to the current session
     */
    gnutls_credentials_set (session, GNUTLS_CRD_SRP, srp_cred);

```

```

gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, cert_cred);

gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);

/* Perform the TLS handshake
*/
ret = gnutls_handshake (session);

if (ret &lt; 0)
{
    fprintf (stderr, "*** Handshake failed\n");
    gnutls_perror (ret);
    goto end;
}
else
{
    printf ("- Handshake was completed\n");
}

gnutls_record_send (session, MSG, strlen (MSG));

ret = gnutls_record_recv (session, buffer, MAX_BUF);
if (gnutls_error_is_fatal (ret) == 1 || ret == 0)
{
    if (ret == 0)
    {
        printf ("- Peer has closed the GNUTLS connection\n");
        goto end;
    }
    else
    {
        fprintf (stderr, "*** Error: %s\n", gnutls_strerror (ret));
        goto end;
    }
}
else
    check_alert (session, ret);

if (ret > 0)
{
    printf ("- Received %d bytes: ", ret);
    for (ii = 0; ii &lt; ret; ii++)
    {
        fputc (buffer[ii], stdout);
    }
    fputs ("\n", stdout);
}
gnutls_bye (session, GNUTLS_SHUT_RDWR);

```

end:

```
tcp_close (sd);
```

```
gnutls_deinit (session);
```

```
gnutls_srp_free_client_credentials (srp_cred);
```

```
gnutls_certificate_free_credentials (cert_cred);
```

```
gnutls_global_deinit ();
```

```
return 0;
```

```
}
```

```
</pre>
```

```
<div class="node">
```

```
<a name="Simple-client-example-with-TLS%2fIA-support"></a>
```

```
<a name="Simple-client-example-with-TLS_002fIA-support"></a>
```

```
<p><hr>
```

```
Next:&nbsp;<a rel="next" accesskey="n" href="#Simple-client-example-in-C_002b_002b">Simple client example  
in C++</a>,&
```

```
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Simple-client-example-with-SRP-authentication">Simple  
client example with SRP authentication</a>,&
```

```
Up:&nbsp;<a rel="up" accesskey="u" href="#Client-examples">Client examples</a>
```

```
</div>
```

```
<h4 class="subsection">7.3.8 Simple Client Example with <acronym>TLS/IA</acronym> Support</h4>
```

```
<p>The following client is a simple client which uses the
```

```
<acronym>TLS/IA</acronym> extension to authenticate with the server.
```

```
<pre class="verbatim">/* This example code is placed in the public domain. */
```

```
#ifdef HAVE_CONFIG_H
```

```
# include &lt;config.h>
```

```
#endif
```

```
#include &lt;stdio.h>
```

```
#include &lt;stdlib.h>
```

```
#include &lt;string.h>
```

```
#include &lt;sys/types.h>
```

```
#include &lt;sys/socket.h>
```

```
#include &lt;arpa/inet.h>
```

```
#include &lt;unistd.h>
```

```
#include &lt;gnutls/gnutls.h>
```

```
#include &lt;gnutls/extra.h>
```

```

/* A basic TLS client, with anonymous authentication and TLS/IA handshake.
*/

#define MAX_BUF 1024
#define MSG "GET / HTTP/1.0\r\n\r\n"

extern int tcp_connect (void);
extern void tcp_close (int sd);

static int
client_avp (gnutls_session_t session, void *ptr,
           const char *last, size_t lastlen, char **new, size_t * newlen)
{
    if (last)
        printf ("- received %d bytes AVP: `%.*s`\n",
              lastlen, (int) lastlen, last);
    else
        printf ("- new application phase\n");

    *new = gnutls_strdup ("client avp");
    if (!*new)
        return -1;
    *newlen = strlen (*new);

    printf ("- sending %d bytes AVP: `%s`\n", *newlen, *new);

    gnutls_ia_permute_inner_secret (session, 3, "foo");

    return 0;
}

int
main (void)
{
    int ret, sd, ii;
    gnutls_session_t session;
    char buffer[MAX_BUF + 1];
    gnutls_anon_client_credentials_t anoncred;
    gnutls_ia_client_credentials_t iacred;
    /* Need to enable anonymous KX specifically. */

    gnutls_global_init ();

    gnutls_anon_allocate_client_credentials (&anoncred);
    gnutls_ia_allocate_client_credentials (&iacred);

```



```

/* Set TLS/IA stuff
*/
gnutls_ia_set_client_avp_function (iacred, client_avp);

/* Initialize TLS session
*/
gnutls_init (&session, GNUTLS_CLIENT);

/* Use default priorities */
gnutls_priority_set_direct (session, "NORMAL:+ANON-DH", NULL);

/* put the anonymous and TLS/IA credentials to the current session
*/
gnutls_credentials_set (session, GNUTLS_CRD_ANON, anoncred);
gnutls_credentials_set (session, GNUTLS_CRD_IA, iacred);

/* connect to the peer
*/
sd = tcp_connect ();

gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);

/* Perform the TLS handshake
*/
ret = gnutls_handshake (session);

if (ret < 0)
{
    fprintf (stderr, "*** Handshake failed\n");
    gnutls_perror (ret);
    goto end;
}
else
{
    printf ("- Handshake was completed\n");
}

if (!gnutls_ia_handshake_p (session))
{
    fprintf (stderr, "*** TLS/IA not negotiated...\n");
    goto end;
}
else
{
    printf ("- Starting TLS/IA handshake...\n");

    ret = gnutls_ia_handshake (session);

```

```

    if (ret < 0)
    {
        fprintf (stderr, "*** TLS/IA handshake failed\n");
        gnutls_perror (ret);
        goto end;
    }
    else
    {
        printf ("- TLS/IA Handshake was completed\n");
    }
}

gnutls_record_send (session, MSG, strlen (MSG));

ret = gnutls_record_recv (session, buffer, MAX_BUF);
if (ret == 0)
{
    printf ("- Peer has closed the TLS connection\n");
    goto end;
}
else if (ret < 0)
{
    fprintf (stderr, "*** Error: %s\n", gnutls_strerror (ret));
    goto end;
}

printf ("- Received %d bytes: ", ret);
for (ii = 0; ii < ret; ii++)
{
    fputc (buffer[ii], stdout);
}
fputs ("\n", stdout);

gnutls_bye (session, GNUTLS_SHUT_RDWR);

end:

tcp_close (sd);

gnutls_deinit (session);

gnutls_ia_free_client_credentials (iacred);
gnutls_anon_free_client_credentials (anoncred);

gnutls_global_deinit ();

return 0;

```

```

}
</pre>
<div class="node">
<a name="Simple-client-example-in-C++"></a>
<a name="Simple-client-example-in-C_002b_002b"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Helper-function-for-TCP-connections">Helper function for TCP
connections</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Simple-client-example-with-TLS_002fIA-
support">Simple client example with TLS/IA support</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Client-examples">Client examples</a>

</div>

```

7.3.9 Simple Client Example using the C++ API

The following client is a simple example of a client utilizing the GnuTLS C++ API.

```

<pre class="verbatim">#include <iostream>
#include <stdexcept>
#include <gnutls/gnutls.h>
#include <gnutls/gnutlsxx.h>
#include <cstring> /* for strlen */

/* A very basic TLS client, with anonymous authentication.
 * written by Eduardo Villanueva Che.
 */

#define MAX_BUF 1024
#define SA struct sockaddr

#define CAFILE "ca.pem"
#define MSG "GET / HTTP/1.0\r\n\r\n"

extern "C"
{
    int tcp_connect(void);
    void tcp_close(int sd);
}

int main(void)
{
    int sd = -1;
    gnutls_global_init();

    try

```

```

{

/* Allow connections to servers that have OpenPGP keys as well.
*/
gnutls::client_session session;

/* X509 stuff */
gnutls::certificate_credentials credentials;

/* sets the trusted cas file
*/
credentials.set_x509_trust_file(CAFILE, GNUTLS_X509_FMT_PEM);
/* put the x509 credentials to the current session
*/
session.set_credentials(credentials);

/* Use default priorities */
session.set_priority ("NORMAL", NULL);

/* connect to the peer
*/
sd = tcp_connect();
session.set_transport_ptr((gnutls_transport_ptr_t) sd);

/* Perform the TLS handshake
*/
int ret = session.handshake();
if (ret < 0)
{
// gnutls_perror(ret);
throw std::runtime_error("Handshake failed");
}
else
{
std::cout <<< " - Handshake was completed" <<< std::endl;
}

session.send(MSG, strlen(MSG));
char buffer[MAX_BUF + 1];
ret = session.recv(buffer, MAX_BUF);
if (ret == 0)
{
throw std::runtime_error("Peer has closed the TLS connection");
}
else if (ret < 0)
{
throw std::runtime_error(gnutls_strerror(ret));
}
}
}

```

```

    }

    std::cout &&&& " - Received " &&&& ret &&&& " bytes:" &&&& std::endl;
    std::cout.write(buffer, ret);
    std::cout &&&& std::endl;

    session.bye(GNUTLS_SHUT_RDWR);
}
catch (std::exception &&&ex)
{
    std::cerr &&&& "Exception caught: " &&&& ex.what() &&&& std::endl;
}

if (sd != -1)
    tcp_close(sd);

gnutls_global_deinit();

return 0;
}
</pre>
<div class="node">
<a name="Helper-function-for-TCP-connections"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Simple-client-example-in-C_002b_002b">Simple client
example in C++</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Client-examples">Client examples</a>
</div>

```

7.3.10 Helper Function for TCP Connections

This helper function abstracts away TCP connection handling from the other examples. It is required to build some examples.

```
<pre class="verbatim">/* This example code is placed in the public domain. */
```

```

#ifdef HAVE_CONFIG_H
# include &&&&config.h>
#endif

#include &&&&stdio.h>
#include &&&&stdlib.h>
#include &&&&string.h>
#include &&&&sys/types.h>
#include &&&&sys/socket.h>
#include &&&&arpa/inet.h>
#include &&&&netinet/in.h>

```

```

#include <unistd.h>

#define SA struct sockaddr

/* tcp.c */
int tcp_connect (void);
void tcp_close (int sd);

/* Connects to the peer and returns a socket
 * descriptor.
 */
extern int
tcp_connect (void)
{
    const char *PORT = "5556";
    const char *SERVER = "127.0.0.1";
    int err, sd;
    struct sockaddr_in sa;

    /* connects to server
     */
    sd = socket (AF_INET, SOCK_STREAM, 0);

    memset (&sa, '\0', sizeof (sa));
    sa.sin_family = AF_INET;
    sa.sin_port = htons (atoi (PORT));
    inet_pton (AF_INET, SERVER, &sa.sin_addr);

    err = connect (sd, (SA *) &sa, sizeof (sa));
    if (err < 0)
    {
        fprintf (stderr, "Connect error\n");
        exit (1);
    }

    return sd;
}

/* closes the given socket descriptor.
 */
extern void
tcp_close (int sd)
{
    shutdown (sd, SHUT_RDWR); /* no more receptions */
    close (sd);
}
</pre>
<div class="node">

```

```
<a name="Server-examples"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Miscellaneous-examples">Miscellaneous examples</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Client-examples">Client examples</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#How-to-use-GnuTLS-in-applications">How to use GnuTLS in
applications</a>

</div>
```

7.4 Server Examples

This section contains examples of `TLS` and `SSL` servers, using `GnuTLS`.

```
<ul class="menu">
<li><a accesskey="1" href="#Echo-Server-with-X_002e509-authentication">Echo Server with X.509
authentication</a>
<li><a accesskey="2" href="#Echo-Server-with-X_002e509-authentication-II">Echo Server with X.509
authentication II</a>
<li><a accesskey="3" href="#Echo-Server-with-OpenPGP-authentication">Echo Server with OpenPGP
authentication</a>
<li><a accesskey="4" href="#Echo-Server-with-SRP-authentication">Echo Server with SRP authentication</a>
<li><a accesskey="5" href="#Echo-Server-with-anonymous-authentication">Echo Server with anonymous
authentication</a>
</ul>
```

```
<div class="node">
<a name="Echo-Server-with-X.509-authentication"></a>
<a name="Echo-Server-with-X_002e509-authentication"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Echo-Server-with-X_002e509-authentication-II">Echo Server
with X.509 authentication II</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Server-examples">Server examples</a>

</div>
```

7.4.1 Echo Server with `X.509` Authentication

This example is a very simple echo server which supports `X.509` authentication, using the RSA ciphersuites.

```
<pre class="verbatim">/* This example code is placed in the public domain. */
```

```
#ifdef HAVE_CONFIG_H
# include &lt;config.h>
#endif

#include &lt;stdio.h>
```

```

#include <stdlib.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <netinet/in.h>
#include <string.h>
#include <unistd.h>
#include <gnutls/gnutls.h>
#include <gcrypt.h> /* for gcry_control */

#define KEYFILE "key.pem"
#define CERTFILE "cert.pem"
#define CAFILE "ca.pem"
#define CRLFILE "crl.pem"

/* This is a sample TLS 1.0 echo server, using X.509 authentication.
*/

#define SA struct sockaddr
#define SOCKET_ERR(err,s) if(err==-1) { perror(s);return(1);}
#define MAX_BUF 1024
#define PORT 5556 /* listen to 5556 port */
#define DH_BITS 1024

/* These are global */
gnutls_certificate_credentials_t x509_cred;
gnutls_priority_t priority_cache;

static gnutls_session_t
initialize_tls_session (void)
{
    gnutls_session_t session;

    gnutls_init (&session, GNUTLS_SERVER);

    gnutls_priority_set (session, priority_cache);

    gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, x509_cred);

    /* request client certificate if any.
    */
    gnutls_certificate_server_set_request (session, GNUTLS_CERT_REQUEST);

    /* Set maximum compatibility mode. This is only suggested on public web servers
    * that need to trade security for compatibility
    */

```



```

gnutls_session_enable_compatibility_mode (session);

return session;
}

static gnutls_dh_params_t dh_params;

static int
generate_dh_params (void)
{
    /* Generate Diffie-Hellman parameters - for use with DHE
    * kx algorithms. When short bit length is used, it might
    * be wise to regenerate parameters.
    *
    * Check the ex-serv-export.c example for using static
    * parameters.
    */
    gnutls_dh_params_init (&dh_params);
    gnutls_dh_params_generate2 (dh_params, DH_BITS);

    return 0;
}

int
main (void)
{
    int err, listen_sd;
    int sd, ret;
    struct sockaddr_in sa_serv;
    struct sockaddr_in sa_cli;
    int client_len;
    char topbuf[512];
    gnutls_session_t session;
    char buffer[MAX_BUF + 1];
    int optval = 1;

    /* to disallow usage of the blocking /dev/random
    */
    gcry_control (GCRYCTL_ENABLE_QUICK_RANDOM, 0);

    /* this must be called once in the program
    */
    gnutls_global_init ();

    gnutls_certificate_allocate_credentials (&x509_cred);
    gnutls_certificate_set_x509_trust_file (x509_cred, CAFILE,
        GNUTLS_X509_FMT_PEM);

```

```

gnutls_certificate_set_x509_crl_file (x509_cred, CRLFILE,
    GNUTLS_X509_FMT_PEM);

gnutls_certificate_set_x509_key_file (x509_cred, CERTFILE, KEYFILE,
    GNUTLS_X509_FMT_PEM);

generate_dh_params ();

gnutls_priority_init (&priority_cache, "NORMAL", NULL);

gnutls_certificate_set_dh_params (x509_cred, dh_params);

/* Socket operations
*/
listen_sd = socket (AF_INET, SOCK_STREAM, 0);
SOCKET_ERR (listen_sd, "socket");

memset (&sa_serv, '\0', sizeof (sa_serv));
sa_serv.sin_family = AF_INET;
sa_serv.sin_addr.s_addr = INADDR_ANY;
sa_serv.sin_port = htons (PORT); /* Server Port number */

setsockopt (listen_sd, SOL_SOCKET, SO_REUSEADDR, (void *) &optval, sizeof (int));

err = bind (listen_sd, (SA *) &sa_serv, sizeof (sa_serv));
SOCKET_ERR (err, "bind");
err = listen (listen_sd, 1024);
SOCKET_ERR (err, "listen");

printf ("Server ready. Listening to port '%d'.\n\n", PORT);

client_len = sizeof (sa_cli);
for (;;)
{
    session = initialize_tls_session ();

    sd = accept (listen_sd, (SA *) &sa_cli, &client_len);

    printf ("- connection from %s, port %d\n",
        inet_ntop (AF_INET, &sa_cli.sin_addr, topbuf,
            sizeof (topbuf)), ntohs (sa_cli.sin_port));

    gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);
    ret = gnutls_handshake (session);
    if (ret < 0)
    {

```

```

close (sd);
gnutls_deinit (session);
fprintf (stderr, "*** Handshake has failed (%s)\n\n",
        gnutls_strerror (ret));
continue;
}
printf ("- Handshake was completed\n");

/* see the Getting peer's information example */
/* print_info(session); */

for (;;)
{
memset (buffer, 0, MAX_BUF + 1);
ret = gnutls_record_recv (session, buffer, MAX_BUF);

if (ret == 0)
{
printf ("\n- Peer has closed the GNUTLS connection\n");
break;
}
else if (ret < 0)
{
fprintf (stderr, "\n*** Received corrupted "
        "data(%d). Closing the connection.\n\n", ret);
break;
}
else if (ret > 0)
{
/* echo data back to the client
*/
gnutls_record_send (session, buffer, strlen (buffer));
}
}
printf ("\n");
/* do not wait for the peer to close the connection.
*/
gnutls_bye (session, GNUTLS_SHUT_WR);

close (sd);
gnutls_deinit (session);

}
close (listen_sd);

gnutls_certificate_free_credentials (x509_cred);
gnutls_priority_deinit (priority_cache);

```

```

gnutls_global_deinit ();

return 0;

}
</pre>
<div class="node">
<a name="Echo-Server-with-X.509-authentication-II"></a>
<a name="Echo-Server-with-X_002e509-authentication-II"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Echo-Server-with-OpenPGP-authentication">Echo Server with
OpenPGP authentication</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Echo-Server-with-X_002e509-authentication">Echo
Server with X.509 authentication</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Server-examples">Server examples</a>
</div>

```

7.4.2 Echo Server with X.509 Authentication II

The following example is a server which supports X.509 authentication. This server supports the export-grade cipher suites, the DHE ciphersuites and session resuming.

```
<pre class="verbatim"> /* This example code is placed in the public domain. */
```

```

#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <netinet/in.h>
#include <string.h>
#include <unistd.h>
#include <gnutls/gnutls.h>
#include <gcrypt.h> /* for gcry_control */

#define KEYFILE "key.pem"
#define CERTFILE "cert.pem"
#define CAFILE "ca.pem"
#define CRLFILE "crl.pem"

/* This is a sample TLS 1.0 echo server.

```

```

* Export-grade ciphersuites and session resuming are supported.
*/

#define SA struct sockaddr
#define SOCKET_ERR(err,s) if(err==-1) {perror(s);return(1);}
#define MAX_BUF 1024
#define PORT 5556 /* listen to 5556 port */
#define DH_BITS 1024

/* These are global */
gnutls_certificate_credentials_t cert_cred;

static void wrap_db_init (void);
static void wrap_db_deinit (void);
static int wrap_db_store (void *dbf, gnutls_datum_t key, gnutls_datum_t data);
static gnutls_datum_t wrap_db_fetch (void *dbf, gnutls_datum_t key);
static int wrap_db_delete (void *dbf, gnutls_datum_t key);

#define TLS_SESSION_CACHE 50

static gnutls_session_t
initialize_tls_session (void)
{
    gnutls_session_t session;

    gnutls_init (&session, GNUTLS_SERVER);

    /* Use the default priorities, plus, export cipher suites.
    */
    gnutls_priority_set_direct (session, "EXPORT", NULL);

    gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, cert_cred);

    /* request client certificate if any.
    */
    gnutls_certificate_server_set_request (session, GNUTLS_CERT_REQUEST);

    gnutls_dh_set_prime_bits (session, DH_BITS);

    if (TLS_SESSION_CACHE != 0)
    {
        gnutls_db_set_retrieve_function (session, wrap_db_fetch);
        gnutls_db_set_remove_function (session, wrap_db_delete);
        gnutls_db_set_store_function (session, wrap_db_store);
        gnutls_db_set_ptr (session, NULL);
    }

    return session;

```

```

}

gnutls_dh_params_t dh_params;
/* Export-grade cipher suites require temporary RSA
 * keys.
 */
gnutls_rsa_params_t rsa_params;

static char srp_dh_group2048[] =
"-----BEGIN DH PARAMETERS-----\n"
"MIIBBwKCAQCsa9tBMkqam/Fm3l4TiVgvr3K2ZRmH7gf8MZKUPbVgUKNzKcu0oJnt\n"
"gZPgDxdnoT3VIxKrSwMxDc1/SKnaBP1Q6Ag5ae23Z7DPYJUXmhY6s2YaBfvV+qro\n"
"KRipli8Lk7hV+XmT7Jde6qgNdArb9P90c1nQQdXDPqcdKB5EaxR3O8qXtDoj+4AW\n"
"dr0gekNsZIHx0rkHhxdGGludMuaI+HdIVEUjtSSw1X1ep3onddLs+gMs+9v1L7N4\n"
"YWAnkATleuavh05zA85TKZzMBBx7wwjYKlaY86jQw4JxrjX46dv7tpS1yAPYn3rk\n"
"Nd4jbVJfVHWbZeNy/NaO8g+nER+eSv9zAgEC\n" "-----END DH PARAMETERS-----\n";

static int
generate_dh_params (void)
{
gnutls_datum_t dparams = { srp_dh_group2048, sizeof (srp_dh_group2048) };
/* Here instead of generating Diffie-Hellman parameters (for use with DHE
 * kx algorithms) we import them.
 */
gnutls_dh_params_init (&dh_params);
gnutls_dh_params_import_pkcs3 (dh_params, &dparams, GNUTLS_X509_FMT_PEM);

return 0;
}

static int
generate_rsa_params (void)
{
gnutls_rsa_params_init (&rsa_params);

/* Generate RSA parameters - for use with RSA-export
 * cipher suites. This is an RSA private key and should be
 * discarded and regenerated once a day, once every 500
 * transactions etc. Depends on the security requirements.
 */

gnutls_rsa_params_generate2 (rsa_params, 512);

return 0;
}

int
main (void)

```

```

{
int err, listen_sd;
int sd, ret;
struct sockaddr_in sa_serv;
struct sockaddr_in sa_cli;
int client_len;
char topbuf[512];
gnutls_session_t session;
char buffer[MAX_BUF + 1];
int optval = 1;
char name[256];

strcpy (name, "Echo Server");

/* to disallow usage of the blocking /dev/random
*/
gcry_control (GCRYCTL_ENABLE_QUICK_RANDOM, 0);

/* this must be called once in the program
*/
gnutls_global_init ();

gnutls_certificate_allocate_credentials (&cert_cred);

gnutls_certificate_set_x509_trust_file (cert_cred, CAFILE,
GNUTLS_X509_FMT_PEM);

gnutls_certificate_set_x509_crl_file (cert_cred, CRLFILE,
GNUTLS_X509_FMT_PEM);

gnutls_certificate_set_x509_key_file (cert_cred, CERTFILE, KEYFILE,
GNUTLS_X509_FMT_PEM);

generate_dh_params ();
generate_rsa_params ();

if (TLS_SESSION_CACHE != 0)
{
wrap_db_init ();
}

gnutls_certificate_set_dh_params (cert_cred, dh_params);
gnutls_certificate_set_rsa_export_params (cert_cred, rsa_params);

/* Socket operations
*/
listen_sd = socket (AF_INET, SOCK_STREAM, 0);

```

```

SOCKET_ERR (listen_sd, "socket");

memset (&sa_serv, '\0', sizeof (sa_serv));
sa_serv.sin_family = AF_INET;
sa_serv.sin_addr.s_addr = INADDR_ANY;
sa_serv.sin_port = htons (PORT); /* Server Port number */

setsockopt (listen_sd, SOL_SOCKET, SO_REUSEADDR, (void *) &optval, sizeof (int));

err = bind (listen_sd, (SA *) &sa_serv, sizeof (sa_serv));
SOCKET_ERR (err, "bind");
err = listen (listen_sd, 1024);
SOCKET_ERR (err, "listen");

printf ("%s ready. Listening to port '%d'.\n\n", name, PORT);

client_len = sizeof (sa_cli);
for (;;)
{
    session = initialize_tls_session ();

    sd = accept (listen_sd, (SA *) &sa_cli, &client_len);

    printf ("- connection from %s, port %d\n",
        inet_ntop (AF_INET, &sa_cli.sin_addr, topbuf,
        sizeof (topbuf)), ntohs (sa_cli.sin_port));

    gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);
    ret = gnutls_handshake (session);
    if (ret < 0)
    {
        close (sd);
        gnutls_deinit (session);
        fprintf (stderr, "*** Handshake has failed (%s)\n\n",
            gnutls_strerror (ret));
        continue;
    }
    printf ("- Handshake was completed\n");

    /* print_info(session); */

    for (;;)
    {
        memset (buffer, 0, MAX_BUF + 1);
        ret = gnutls_record_recv (session, buffer, MAX_BUF);

        if (ret == 0)
        {

```



```

    printf ("\n- Peer has closed the TLS connection\n");
    break;
}
else if (ret &lt; 0)
{
    fprintf (stderr, "\n*** Received corrupted "
        "data(%d). Closing the connection.\n\n", ret);
    break;
}
else if (ret > 0)
{
    /* echo data back to the client
    */
    gnutls_record_send (session, buffer, strlen (buffer));
}
}
printf ("\n");
/* do not wait for the peer to close the connection.
*/
gnutls_bye (session, GNUTLS_SHUT_WR);

close (sd);
gnutls_deinit (session);

}
close (listen_sd);

if (TLS_SESSION_CACHE != 0)
{
    wrap_db_deinit ();
}

gnutls_certificate_free_credentials (cert_cred);

gnutls_global_deinit ();

return 0;

}

/* Functions and other stuff needed for session resuming.
* This is done using a very simple list which holds session ids
* and session data.
*/

#define MAX_SESSION_ID_SIZE 32
#define MAX_SESSION_DATA_SIZE 512

```

```

typedef struct
{
    char session_id[MAX_SESSION_ID_SIZE];
    size_t session_id_size;

    char session_data[MAX_SESSION_DATA_SIZE];
    size_t session_data_size;
} CACHE;

static CACHE *cache_db;
static int cache_db_ptr = 0;

static void
wrap_db_init (void)
{
    /* allocate cache_db */
    cache_db = calloc (1, TLS_SESSION_CACHE * sizeof (CACHE));
}

static void
wrap_db_deinit (void)
{
    free (cache_db);
    cache_db = NULL;
    return;
}

static int
wrap_db_store (void *dbf, gnutls_datum_t key, gnutls_datum_t data)
{
    if (cache_db == NULL)
        return -1;

    if (key.size > MAX_SESSION_ID_SIZE)
        return -1;
    if (data.size > MAX_SESSION_DATA_SIZE)
        return -1;

    memcpy (cache_db[cache_db_ptr].session_id, key.data, key.size);
    cache_db[cache_db_ptr].session_id_size = key.size;

    memcpy (cache_db[cache_db_ptr].session_data, data.data, data.size);
    cache_db[cache_db_ptr].session_data_size = data.size;

    cache_db_ptr++;
}

```

```

cache_db_ptr %= TLS_SESSION_CACHE;

return 0;
}

static gnutls_datum_t
wrap_db_fetch (void *dbf, gnutls_datum_t key)
{
    gnutls_datum_t res = { NULL, 0 };
    int i;

    if (cache_db == NULL)
        return res;

    for (i = 0; i < TLS_SESSION_CACHE; i++)
    {
        if (key.size == cache_db[i].session_id_size &&
            memcmp (key.data, cache_db[i].session_id, key.size) == 0)
        {

            res.size = cache_db[i].session_data_size;

            res.data = gnutls_malloc (res.size);
            if (res.data == NULL)
                return res;

            memcpy (res.data, cache_db[i].session_data, res.size);

            return res;
        }
    }
    return res;
}

static int
wrap_db_delete (void *dbf, gnutls_datum_t key)
{
    int i;

    if (cache_db == NULL)
        return -1;

    for (i = 0; i < TLS_SESSION_CACHE; i++)
    {
        if (key.size == cache_db[i].session_id_size &&
            memcmp (key.data, cache_db[i].session_id, key.size) == 0)
        {

```

```

cache_db[i].session_id_size = 0;
cache_db[i].session_data_size = 0;

return 0;
}
}

return -1;

}
</pre>
<div class="node">
<a name="Echo-Server-with-OpenPGP-authentication"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Echo-Server-with-SRP-authentication">Echo Server with SRP authentication</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Echo-Server-with-X_002e509-authentication-II">Echo Server with X.509 authentication II</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Server-examples">Server examples</a>
</div>

```

7.4.3 Echo Server with OpenPGP Authentication

<p>

The following example is an echo server which supports

OpenPGP key authentication. You can easily combine this functionality —that is have a server that supports both

X.509 and OpenPGP certificates— but we separated them to keep these examples as simple as possible.

```
<pre class="verbatim">/* This example code is placed in the public domain. */
```

```
#ifdef HAVE_CONFIG_H
```

```
# include <config.h>
```

```
#endif
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <errno.h>
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
#include <arpa/inet.h>
```

```
#include <netinet/in.h>
```

```
#include <string.h>
```

```
#include <unistd.h>
```

```
#include <gnutls/gnutls.h>
```

```

#include <gnutls/openpgp.h>

#define KEYFILE "secret.asc"
#define CERTFILE "public.asc"
#define RINGFILE "ring.gpg"

/* This is a sample TLS 1.0-OpenPGP echo server.
*/

#define SA struct sockaddr
#define SOCKET_ERR(err,s) if(err==-1) { perror(s);return(1);}
#define MAX_BUF 1024
#define PORT 5556 /* listen to 5556 port */
#define DH_BITS 1024

/* These are global */
gnutls_certificate_credentials_t cred;
gnutls_dh_params_t dh_params;

static int
generate_dh_params (void)
{
    /* Generate Diffie-Hellman parameters - for use with DHE
    * kx algorithms. These should be discarded and regenerated
    * once a day, once a week or once a month. Depending on the
    * security requirements.
    */
    gnutls_dh_params_init (&dh_params);
    gnutls_dh_params_generate2 (dh_params, DH_BITS);

    return 0;
}

static gnutls_session_t
initialize_tls_session (void)
{
    gnutls_session_t session;

    gnutls_init (&session, GNUTLS_SERVER);

    gnutls_priority_set_direct (session, "NORMAL", NULL);

    /* request client certificate if any.
    */
    gnutls_certificate_server_set_request (session, GNUTLS_CERT_REQUEST);

```

```

gnutls_dh_set_prime_bits (session, DH_BITS);

return session;
}

int
main (void)
{
int err, listen_sd;
int sd, ret;
struct sockaddr_in sa_serv;
struct sockaddr_in sa_cli;
int client_len;
char topbuf[512];
gnutls_session_t session;
char buffer[MAX_BUF + 1];
int optval = 1;
char name[256];

strcpy (name, "Echo Server");

/* this must be called once in the program
*/
gnutls_global_init ();

gnutls_certificate_allocate_credentials (&cred);
gnutls_certificate_set_openpgp_keyring_file (cred, RINGFILE,
GNUTLS_OPENPGP_FMT_BASE64);

gnutls_certificate_set_openpgp_key_file (cred, CERTFILE, KEYFILE,
GNUTLS_OPENPGP_FMT_BASE64);

generate_dh_params ();

gnutls_certificate_set_dh_params (cred, dh_params);

/* Socket operations
*/
listen_sd = socket (AF_INET, SOCK_STREAM, 0);
SOCKET_ERR (listen_sd, "socket");

memset (&sa_serv, '\0', sizeof (sa_serv));
sa_serv.sin_family = AF_INET;
sa_serv.sin_addr.s_addr = INADDR_ANY;
sa_serv.sin_port = htons (PORT); /* Server Port number */

setsockopt (listen_sd, SOL_SOCKET, SO_REUSEADDR, (void *) &optval, sizeof (int));

```

```

err = bind (listen_sd, (SA *) &sa_serv, sizeof (sa_serv));
SOCKET_ERR (err, "bind");
err = listen (listen_sd, 1024);
SOCKET_ERR (err, "listen");

printf ("%s ready. Listening to port '%d'.\n\n", name, PORT);

client_len = sizeof (sa_cli);
for (;;)
{
    session = initialize_tls_session ();

    sd = accept (listen_sd, (SA *) &sa_cli, &client_len);

    printf ("- connection from %s, port %d\n",
        inet_ntop (AF_INET, &sa_cli.sin_addr, topbuf,
        sizeof (topbuf)), ntohs (sa_cli.sin_port));

    gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);
    ret = gnutls_handshake (session);
    if (ret < 0)
    {
        close (sd);
        gnutls_deinit (session);
        fprintf (stderr, "*** Handshake has failed (%s)\n\n",
            gnutls_strerror (ret));
        continue;
    }
    printf ("- Handshake was completed\n");

    /* see the Getting peer's information example */
    /* print_info(session); */

    for (;;)
    {
        memset (buffer, 0, MAX_BUF + 1);
        ret = gnutls_record_recv (session, buffer, MAX_BUF);

        if (ret == 0)
        {
            printf ("\n- Peer has closed the GNUTLS connection\n");
            break;
        }
        else if (ret < 0)
        {
            fprintf (stderr, "\n*** Received corrupted "
                "data(%d). Closing the connection.\n\n", ret);
            break;
        }
    }
}

```

```

    }
    else if (ret > 0)
    {
        /* echo data back to the client
        */
        gnutls_record_send (session, buffer, strlen (buffer));
    }
}
printf ("\n");
/* do not wait for the peer to close the connection.
*/
gnutls_bye (session, GNUTLS_SHUT_WR);

close (sd);
gnutls_deinit (session);

}
close (listen_sd);

gnutls_certificate_free_credentials (cred);

gnutls_global_deinit ();

return 0;

}

```

</pre>

<div class="node">

<p><hr>

Next: Echo Server with anonymous authentication,&

Previous: Echo Server with OpenPGP authentication,&

Up: Server examples

</div>

<h4 class="subsection">7.4.4 Echo Server with <acronym>SRP</acronym> Authentication</h4>

<p>This is a server which supports <acronym>SRP</acronym> authentication. It is also possible to combine this functionality with a certificate server. Here it is separate for simplicity.

<pre class="verbatim">/* This example code is placed in the public domain. */

#ifdef HAVE_CONFIG_H

include <config.h>


```

#endif

#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <netinet/in.h>
#include <string.h>
#include <unistd.h>
#include <gnutls/gnutls.h>
#include <gnutls/extra.h>

#define SRP_PASSWD "tpasswd"
#define SRP_PASSWD_CONF "tpasswd.conf"

#define KEYFILE "key.pem"
#define CERTFILE "cert.pem"
#define CAFILE "ca.pem"

/* This is a sample TLS-SRP echo server.
*/

#define SA struct sockaddr
#define SOCKET_ERR(err,s) if(err==-1) { perror(s);return(1);}
#define MAX_BUF 1024
#define PORT 5556 /* listen to 5556 port */

/* These are global */
gnutls_srp_server_credentials_t srp_cred;
gnutls_certificate_credentials_t cert_cred;

static gnutls_session_t
initialize_tls_session (void)
{
    gnutls_session_t session;

    gnutls_init (&session, GNUTLS_SERVER);

    gnutls_priority_set_direct (session, "NORMAL:+SRP:+SRP-DSS:+SRP-RSA", NULL);

    gnutls_credentials_set (session, GNUTLS_CRD_SRP, srp_cred);
    /* for the certificate authenticated ciphersuites.
    */
    gnutls_credentials_set (session, GNUTLS_CRD_CERTIFICATE, cert_cred);

    /* request client certificate if any.

```

```

*/
gnutls_certificate_server_set_request (session, GNUTLS_CERT_IGNORE);

return session;
}

int
main (void)
{
int err, listen_sd;
int sd, ret;
struct sockaddr_in sa_serv;
struct sockaddr_in sa_cli;
int client_len;
char topbuf[512];
gnutls_session_t session;
char buffer[MAX_BUF + 1];
int optval = 1;
char name[256];

strcpy (name, "Echo Server");

/* these must be called once in the program
*/
gnutls_global_init ();
gnutls_global_init_extra (); /* for SRP */

/* SRP_PASSWD a password file (created with the included srptool utility)
*/
gnutls_srp_allocate_server_credentials (&srp_cred);
gnutls_srp_set_server_credentials_file (srp_cred, SRP_PASSWD,
SRP_PASSWD_CONF);

gnutls_certificate_allocate_credentials (&cert_cred);
gnutls_certificate_set_x509_trust_file (cert_cred, CAFILE,
GNUTLS_X509_FMT_PEM);
gnutls_certificate_set_x509_key_file (cert_cred, CERTFILE, KEYFILE,
GNUTLS_X509_FMT_PEM);

/* TCP socket operations
*/
listen_sd = socket (AF_INET, SOCK_STREAM, 0);
SOCKET_ERR (listen_sd, "socket");

memset (&sa_serv, '\0', sizeof (sa_serv));
sa_serv.sin_family = AF_INET;
sa_serv.sin_addr.s_addr = INADDR_ANY;
sa_serv.sin_port = htons (PORT); /* Server Port number */

```

```

setsockopt (listen_sd, SOL_SOCKET, SO_REUSEADDR, (void *) &optval, sizeof (int));

err = bind (listen_sd, (SA *) &sa_serv, sizeof (sa_serv));
SOCKET_ERR (err, "bind");
err = listen (listen_sd, 1024);
SOCKET_ERR (err, "listen");

printf ("%s ready. Listening to port '%d'.\n\n", name, PORT);

client_len = sizeof (sa_cli);
for (;;)
{
    session = initialize_tls_session ();

    sd = accept (listen_sd, (SA *) &sa_cli, &client_len);

    printf ("- connection from %s, port %d\n",
        inet_ntop (AF_INET, &sa_cli.sin_addr, topbuf,
        sizeof (topbuf)), ntohs (sa_cli.sin_port));

    gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);
    ret = gnutls_handshake (session);
    if (ret < 0)
    {
        close (sd);
        gnutls_deinit (session);
        fprintf (stderr, "*** Handshake has failed (%s)\n\n",
            gnutls_strerror (ret));
        continue;
    }
    printf ("- Handshake was completed\n");

    /* print_info(session); */

    for (;;)
    {
        memset (buffer, 0, MAX_BUF + 1);
        ret = gnutls_record_recv (session, buffer, MAX_BUF);

        if (ret == 0)
        {
            printf ("\n- Peer has closed the GNUTLS connection\n");
            break;
        }
        else if (ret < 0)
        {
            fprintf (stderr, "\n*** Received corrupted "

```

```

        "data(%d). Closing the connection.\n\n", ret);
    break;
}
else if (ret > 0)
{
    /* echo data back to the client
    */
    gnutls_record_send (session, buffer, strlen (buffer));
}
}
printf ("\n");
/* do not wait for the peer to close the connection. */
gnutls_bye (session, GNUTLS_SHUT_WR);

close (sd);
gnutls_deinit (session);

}
close (listen_sd);

gnutls_srp_free_server_credentials (srp_cred);
gnutls_certificate_free_credentials (cert_cred);

gnutls_global_deinit ();

return 0;

```

}

</pre>

<div class="node">

<p><hr>

Previous: Echo Server with SRP authentication,&

Up: Server examples

</div>

<h4 class="subsection">7.4.5 Echo Server with Anonymous Authentication</h4>

<p>This example server support anonymous authentication, and could be used to serve the example client for anonymous authentication.

<pre class="verbatim">/* This example code is placed in the public domain. */

#ifdef HAVE_CONFIG_H

include <config.h>

#endif

```

#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/socket.h>
#include <arpa/inet.h>
#include <netinet/in.h>
#include <string.h>
#include <unistd.h>
#include <gnutls/gnutls.h>

/* This is a sample TLS 1.0 echo server, for anonymous authentication only.
*/

#define SA struct sockaddr
#define SOCKET_ERR(err,s) if(err==-1) { perror(s);return(1);}
#define MAX_BUF 1024
#define PORT 5556 /* listen to 5556 port */
#define DH_BITS 1024

/* These are global */
gnutls_anon_server_credentials_t anoncred;

static gnutls_session_t
initialize_tls_session (void)
{
    gnutls_session_t session;

    gnutls_init (&session, GNUTLS_SERVER);

    gnutls_priority_set_direct (session, "NORMAL:+ANON-DH", NULL);

    gnutls_credentials_set (session, GNUTLS_CRD_ANON, anoncred);

    gnutls_dh_set_prime_bits (session, DH_BITS);

    return session;
}

static gnutls_dh_params_t dh_params;

static int
generate_dh_params (void)
{
    /* Generate Diffie-Hellman parameters - for use with DHE

```

```

* kx algorithms. These should be discarded and regenerated
* once a day, once a week or once a month. Depending on the
* security requirements.
*/
gnutls_dh_params_init (&dh_params);
gnutls_dh_params_generate2 (dh_params, DH_BITS);

return 0;
}

int
main (void)
{
int err, listen_sd;
int sd, ret;
struct sockaddr_in sa_serv;
struct sockaddr_in sa_cli;
int client_len;
char topbuf[512];
gnutls_session_t session;
char buffer[MAX_BUF + 1];
int optval = 1;

/* this must be called once in the program
*/
gnutls_global_init ();

gnutls_anon_allocate_server_credentials (&anoncred);

generate_dh_params ();

gnutls_anon_set_server_dh_params (anoncred, dh_params);

/* Socket operations
*/
listen_sd = socket (AF_INET, SOCK_STREAM, 0);
SOCKET_ERR (listen_sd, "socket");

memset (&sa_serv, '\0', sizeof (sa_serv));
sa_serv.sin_family = AF_INET;
sa_serv.sin_addr.s_addr = INADDR_ANY;
sa_serv.sin_port = htons (PORT); /* Server Port number */

setsockopt (listen_sd, SOL_SOCKET, SO_REUSEADDR, (void *) &optval, sizeof (int));

err = bind (listen_sd, (SA *) &sa_serv, sizeof (sa_serv));
SOCKET_ERR (err, "bind");
err = listen (listen_sd, 1024);

```

```

SOCKET_ERR (err, "listen");

printf ("Server ready. Listening to port '%d'.\n\n", PORT);

client_len = sizeof (sa_cli);
for (;;)
{
    session = initialize_tls_session ();

    sd = accept (listen_sd, (SA *) &sa_cli, &client_len);

    printf ("- connection from %s, port %d\n",
        inet_ntop (AF_INET, &sa_cli.sin_addr, topbuf,
        sizeof (topbuf)), ntohs (sa_cli.sin_port));

    gnutls_transport_set_ptr (session, (gnutls_transport_ptr_t) sd);
    ret = gnutls_handshake (session);
    if (ret < 0)
    {
        close (sd);
        gnutls_deinit (session);
        fprintf (stderr, "*** Handshake has failed (%s)\n\n",
            gnutls_strerror (ret));
        continue;
    }
    printf ("- Handshake was completed\n");

    /* see the Getting peer's information example */
    /* print_info(session); */

    for (;;)
    {
        memset (buffer, 0, MAX_BUF + 1);
        ret = gnutls_record_recv (session, buffer, MAX_BUF);

        if (ret == 0)
        {
            printf ("\n- Peer has closed the GNUTLS connection\n");
            break;
        }
        else if (ret < 0)
        {
            fprintf (stderr, "\n*** Received corrupted "
                "data(%d). Closing the connection.\n\n", ret);
            break;
        }
        else if (ret > 0)
        {

```

```

    /* echo data back to the client
    */
    gnutls_record_send (session, buffer, strlen (buffer));
}
}
printf ("\n");
/* do not wait for the peer to close the connection.
*/
gnutls_bye (session, GNUTLS_SHUT_WR);

close (sd);
gnutls_deinit (session);

}
close (listen_sd);

gnutls_anon_free_server_credentials (anoncred);

gnutls_global_deinit ();

return 0;

}

```

</pre>

<div class="node">

<p><hr>

Next: Compatibility with the
OpenSSL library,&br/>Previous: Server examples,&br/>Up: How to use GnuTLS in
applications

</div>

<h3 class="section">7.5 Miscellaneous Examples</h3>

<ul class="menu">

Checking for an alert

X.509 certificate parsing example

Certificate request generation

PKCS #12 structure generation

<div class="node">

<p><hr>

Next: X.509 certificate

parsing example,</p></div>
<div>
Up: Miscellaneous examples
</div>
<div>
</div>
<div>
<h4 class="subsection">7.5.1 Checking for an Alert</h4>
</div>
<div>
<p>This is a function that checks if an alert has been received in the current session.
</p>
</div>
<div>
<pre class="verbatim">/* This example code is placed in the public domain. */
</pre>
</div>
<div>
#ifdef HAVE_CONFIG_H
</div>
<div>
#include <config.h>
</div>
<div>
#endif
</div>
<div>
#include <stdio.h>
</div>
<div>
#include <stdlib.h>
</div>
<div>
#include <gnutls/gnutls.h>
</div>
<div>
#include "examples.h"
</div>
<div>
/* This function will check whether the given return code from
</div>
<div>
* a gnutls function (recv/send), is an alert, and will print
</div>
<div>
* that alert.
</div>
<div>
*/
</div>
<div>
void
</div>
<div>
check_alert (gnutls_session_t session, int ret)
</div>
<div>
{
</div>
<div>
int last_alert;
</div>
<div>
if (ret == GNUTLS_E_WARNING_ALERT_RECEIVED
</div>
<div>
|| ret == GNUTLS_E_FATAL_ALERT_RECEIVED)
</div>
<div>
{
</div>
<div>
last_alert = gnutls_alert_get (session);
</div>
<div>
/* The check for renegotiation is only useful if we are
</div>
<div>
* a server, and we had requested a rehandshake.
</div>
<div>
*/
</div>
<div>
if (last_alert == GNUTLS_A_NO_RENEGOTIATION &&
</div>
<div>
ret == GNUTLS_E_WARNING_ALERT_RECEIVED)
</div>
<div>
printf ("* Received NO_RENEGOTIATION alert. "
</div>
<div>
"Client Does not support renegotiation.\n");
</div>
<div>
else
</div>
<div>
printf ("* Received alert '%d': %s.\n", last_alert,
</div>
<div>
gnutls_alert_get_name (last_alert));
</div>
<div>
}
</div>
<div>
}
</div>
</div>
<div>
Open Source Used In USC GAN R2.10 Application Software R2.10.34.9
</div>
<div>
353
</div>

```

</pre>
<div class="node">
<a name="X.509-certificate-parsing-example"></a>
<a name="X_002e509-certificate-parsing-example"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Certificate-request-generation">Certificate request
generation</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Checking-for-an-alert">Checking for an alert</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Miscellaneous-examples">Miscellaneous examples</a>

</div>

```

7.5.2 X.509 Certificate Parsing Example

To demonstrate the X.509 parsing capabilities an example program is listed below. That program reads the peer's certificate, and prints information about it.

```
<pre class="verbatim">/* This example code is placed in the public domain. */
```

```

#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <gnutls/gnutls.h>
#include <gnutls/x509.h>

#include "examples.h"

static const char *
bin2hex (const void *bin, size_t bin_size)
{
    static char printable[110];
    const unsigned char *_bin = bin;
    char *print;
    size_t i;

    if (bin_size > 50)
        bin_size = 50;

    print = printable;
    for (i = 0; i < bin_size; i++)
    {
        sprintf (print, "%.2x ", _bin[i]);
        print += 2;
    }
}

```

```

    }

    return printable;
}

/* This function will print information about this session's peer
 * certificate.
 */
void
print_x509_certificate_info (gnutls_session_t session)
{
    char serial[40];
    char dn[128];
    size_t size;
    unsigned int algo, bits;
    time_t expiration_time, activation_time;
    const gnutls_datum_t *cert_list;
    unsigned int cert_list_size = 0;
    gnutls_x509_crt_t cert;

    /* This function only works for X.509 certificates.
     */
    if (gnutls_certificate_type_get (session) != GNUTLS_CERT_X509)
        return;

    cert_list = gnutls_certificate_get_peers (session, &cert_list_size);

    printf ("Peer provided %d certificates.\n", cert_list_size);

    if (cert_list_size > 0)
    {
        /* we only print information about the first certificate.
         */
        gnutls_x509_crt_init (&cert);

        gnutls_x509_crt_import (cert, &cert_list[0], GNUTLS_X509_FMT_DER);

        printf ("Certificate info:\n");

        expiration_time = gnutls_x509_crt_get_expiration_time (cert);
        activation_time = gnutls_x509_crt_get_activation_time (cert);

        printf ("\tCertificate is valid since: %s", ctime (&activation_time));
        printf ("\tCertificate expires: %s", ctime (&expiration_time));

        /* Print the serial number of the certificate.
         */

```

```

size = sizeof (serial);
gnutls_x509_cert_get_serial (cert, serial, &size);

printf ("\tCertificate serial number: %s\n", bin2hex (serial, size));

/* Extract some of the public key algorithm's parameters
*/
algo = gnutls_x509_cert_get_pk_algorithm (cert, &bits);

printf ("Certificate public key: %s",
gnutls_pk_algorithm_get_name (algo));

/* Print the version of the X.509
* certificate.
*/
printf ("\tCertificate version: #%d\n",
gnutls_x509_cert_get_version (cert));

size = sizeof (dn);
gnutls_x509_cert_get_dn (cert, dn, &size);
printf ("\tDN: %s\n", dn);

size = sizeof (dn);
gnutls_x509_cert_get_issuer_dn (cert, dn, &size);
printf ("\tIssuer's DN: %s\n", dn);

gnutls_x509_cert_deinit (cert);

}
}

```

</pre>

<div class="node">

<p><hr>

Next: PKCS #12 structure generation,&

Previous: X.509 certificate parsing example,&

Up: Miscellaneous examples

</div>

<h4 class="subsection">7.5.3 Certificate Request Generation</h4>

<p>The following example is about generating a certificate request, and a private key. A certificate request can be later be processed by a CA, which should return a signed certificate.

```
<pre class="verbatim"> /* This example code is placed in the public domain. */
```

```
#ifdef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <gnutls/gnutls.h>
#include <gnutls/x509.h>
#include <time.h>

/* This example will generate a private key and a certificate
 * request.
 */

int
main (void)
{
    gnutls_x509_crq_t crq;
    gnutls_x509_privkey_t key;
    unsigned char buffer[10 * 1024];
    size_t buffer_size = sizeof (buffer);

    gnutls_global_init ();

    /* Initialize an empty certificate request, and
     * an empty private key.
     */
    gnutls_x509_crq_init (&crq);

    gnutls_x509_privkey_init (&key);

    /* Generate a 1024 bit RSA private key.
     */
    gnutls_x509_privkey_generate (key, GNUTLS_PK_RSA, 1024, 0);

    /* Add stuff to the distinguished name
     */
    gnutls_x509_crq_set_dn_by_oid (crq, GNUTLS_OID_X520_COUNTRY_NAME,
        0, "GR", 2);

    gnutls_x509_crq_set_dn_by_oid (crq, GNUTLS_OID_X520_COMMON_NAME,
        0, "Nikos", strlen ("Nikos"));

    /* Set the request version.
     */
```

```

gnutls_x509_crq_set_version (crq, 1);

/* Set a challenge password.
*/
gnutls_x509_crq_set_challenge_password (crq, "something to remember here");

/* Associate the request with the private key
*/
gnutls_x509_crq_set_key (crq, key);

/* Self sign the certificate request.
*/
gnutls_x509_crq_sign (crq, key);

/* Export the PEM encoded certificate request, and
* display it.
*/
gnutls_x509_crq_export (crq, GNUTLS_X509_FMT_PEM, buffer, &buffer_size);

printf ("Certificate Request: \n%s", buffer);

/* Export the PEM encoded private key, and
* display it.
*/
buffer_size = sizeof (buffer);
gnutls_x509_privkey_export (key, GNUTLS_X509_FMT_PEM, buffer, &buffer_size);

printf ("\n\nPrivate key: \n%s", buffer);

gnutls_x509_crq_deinit (crq);
gnutls_x509_privkey_deinit (key);

return 0;

}
</pre>
<div class="node">
<a name="PKCS-%2312-structure-generation"></a>
<a name="PKCS-_002312-structure-generation"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Certificate-request-generation">Certificate request
generation</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Miscellaneous-examples">Miscellaneous examples</a>
</div>
<h4 class="subsection">7.5.4 <acronym>PKCS</acronym> #12 Structure Generation</h4>

```

<p>The following example is about generating a <acronym>PKCS</acronym> #12 structure.

```
<pre class="verbatim"> /* This example code is placed in the public domain. */
```

```
#ifndef HAVE_CONFIG_H
# include <config.h>
#endif

#include <stdio.h>
#include <stdlib.h>
#include <gnutls/gnutls.h>
#include <gnutls/pkcs12.h>

#include "examples.h"

#define OUTFILE "out.p12"

/* This function will write a pkcs12 structure into a file.
 * cert: is a DER encoded certificate
 * pkcs8_key: is a PKCS #8 encrypted key (note that this must be
 * encrypted using a PKCS #12 cipher, or some browsers will crash)
 * password: is the password used to encrypt the PKCS #12 packet.
 */
int
write_pkcs12 (const gnutls_datum_t * cert,
             const gnutls_datum_t * pkcs8_key, const char *password)
{
    gnutls_pkcs12_t pkcs12;
    int ret, bag_index;
    gnutls_pkcs12_bag_t bag, key_bag;
    char pkcs12_struct[10 * 1024];
    size_t pkcs12_struct_size;
    FILE *fd;

    /* A good idea might be to use gnutls_x509_privkey_get_key_id()
     * to obtain a unique ID.
     */
    gnutls_datum_t key_id = { (char*) "\x00\x00\x07", 3 };

    gnutls_global_init ();

    /* Firstly we create two helper bags, which hold the certificate,
     * and the (encrypted) key.
     */
```

```

gnutls_pkcs12_bag_init (&bag);
gnutls_pkcs12_bag_init (&key_bag);

ret = gnutls_pkcs12_bag_set_data (bag, GNUTLS_BAG_CERTIFICATE, cert);
if (ret < 0)
{
    fprintf (stderr, "ret: %s\n", gnutls_strerror (ret));
    return 1;
}

/* ret now holds the bag's index.
*/
bag_index = ret;

/* Associate a friendly name with the given certificate. Used
* by browsers.
*/
gnutls_pkcs12_bag_set_friendly_name (bag, bag_index, "My name");

/* Associate the certificate with the key using a unique key
* ID.
*/
gnutls_pkcs12_bag_set_key_id (bag, bag_index, &key_id);

/* use weak encryption for the certificate.
*/
gnutls_pkcs12_bag_encrypt (bag, password, GNUTLS_PKCS_USE_PKCS12_RC2_40);

/* Now the key.
*/

ret = gnutls_pkcs12_bag_set_data (key_bag,
    GNUTLS_BAG_PKCS8_ENCRYPTED_KEY,
    pkcs8_key);
if (ret < 0)
{
    fprintf (stderr, "ret: %s\n", gnutls_strerror (ret));
    return 1;
}

/* Note that since the PKCS #8 key is already encrypted we don't
* bother encrypting that bag.
*/
bag_index = ret;

gnutls_pkcs12_bag_set_friendly_name (key_bag, bag_index, "My name");

gnutls_pkcs12_bag_set_key_id (key_bag, bag_index, &key_id);

```



```

/* The bags were filled. Now create the PKCS #12 structure.
*/
gnutls_pkcs12_init (&pkcs12);

/* Insert the two bags in the PKCS #12 structure.
*/

gnutls_pkcs12_set_bag (pkcs12, bag);
gnutls_pkcs12_set_bag (pkcs12, key_bag);

/* Generate a message authentication code for the PKCS #12
* structure.
*/
gnutls_pkcs12_generate_mac (pkcs12, password);

pkcs12_struct_size = sizeof (pkcs12_struct);
ret =
    gnutls_pkcs12_export (pkcs12, GNUTLS_X509_FMT_DER, pkcs12_struct,
        &pkcs12_struct_size);
if (ret < 0)
{
    fprintf (stderr, "ret: %s\n", gnutls_strerror (ret));
    return 1;
}

fd = fopen (OUTFILE, "w");
if (fd == NULL)
{
    fprintf (stderr, "cannot open file\n");
    return 1;
}
fwrite (pkcs12_struct, 1, pkcs12_struct_size, fd);
fclose (fd);

gnutls_pkcs12_bag_deinit (bag);
gnutls_pkcs12_bag_deinit (key_bag);
gnutls_pkcs12_deinit (pkcs12);

return 0;
}
</pre>
<div class="node">
<a name="Compatibility-with-the-OpenSSL-library"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Opaque-PRF-Input-TLS-Extension">Opaque PRF Input TLS

```

Extension

Previous: [Miscellaneous examples](#),
Up: [How to use GnuTLS in applications](#)

7.6 Compatibility with the OpenSSL Library

To ease GnuTLS' integration with existing applications, a compatibility layer with the widely used OpenSSL library is included in the `gnutls-openssl` library. This compatibility layer is not complete and it is not intended to completely reimplement the OpenSSL API with GnuTLS. It only provides source-level compatibility. There is currently no attempt to make it binary-compatible with OpenSSL.

The prototypes for the compatibility functions are in the `gnutls/openssl.h` header file.

Current limitations imposed by the compatibility layer include:

- Error handling is not thread safe.

Next: [Keying Material Exporters](#),
Previous: [Compatibility with the OpenSSL library](#),
Up: [How to use GnuTLS in applications](#)

7.7 Opaque PRF Input TLS Extension

GnuTLS supports the Opaque PRF Input TLS extension (`draft-rescorla-tls-opaque-prf-input-00.txt`). The API consists of one API for use in the client, `gnutls_oprfi_enable_client`, and one API for use in the server, `gnutls_oprfi_enable_server`.

You must invoke both functions before calling [gnutls_handshake](#gnutls_005fhandshake). The server utilizes a callback function into the application. The callback can look at the random string provided by the client, and also set the server string. The string lengths must be equal according to the protocol.

```
<div class="node">
<a name="Keying-Material-Exporters"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Opaque-PRF-Input-TLS-Extension">Opaque PRF Input
TLS Extension</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#How-to-use-GnuTLS-in-applications">How to use GnuTLS in
applications</a>

</div>
```

7.8 Keying Material Exporters

```
<p><a name="index-Keying-Material-Exporters-44"></a><a name="index-Exporting-Keying-Material-45"></a>
The TLS PRF can be used by other protocols to derive data. The API to
use is gnutls\_prf. The function needs to be provided with the
label in the parameter label, and the extra data to mix in the
extra parameter. Depending on whether you want to mix in the
client or server random data first, you can set the
server_random_first parameter.
```

For example, after establishing a TLS session using [gnutls_handshake](#gnutls_005fhandshake), you can invoke the TLS PRF with this call:

```
<pre class="smallexample"> #define MYLABEL "EXPORTER-FOO"
#define MYCONTEXT "some context data"
char out[32];
rc = gnutls_prf (session, strlen (MYLABEL), MYLABEL, 0,
                strlen (MYCONTEXT), MYCONTEXT, 32, out);
</pre>
```

If you don't want to mix in the client/server random, there is a more low-level TLS PRF interface called [gnutls_prf_raw](#gnutls_005fprf_005fraw).

```
<div class="node">
<a name="Included-programs"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Function-reference">Function reference</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#How-to-use-GnuTLS-in-applications">How to use
GnuTLS in applications</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Top">Top</a>

</div>
```

<h2 class="chapter">8 Included Programs</h2>

<p>Included with <acronym>GnuTLS</acronym> are also a few command line tools that let you use the library for common tasks without writing an application. The applications are discussed in this chapter.

- Invoking certtool
- Invoking gnutls-cli
- Invoking gnutls-cli-debug
- Invoking gnutls-serv
- Invoking psktool
- Invoking srptool

<div class="node">

<p><hr>
Next: Invoking gnutls-cli,
Up: Included programs
</div>

<h3 class="section">8.1 Invoking certtool</h3>

<p>
This is a program to generate <acronym>X.509</acronym> certificates, certificate requests, CRLs and private keys.

```
<pre class="verbatim">Certtool help
Usage: certtool [options]
  -s, --generate-self-signed
           Generate a self-signed certificate.
  -c, --generate-certificate
           Generate a signed certificate.
  --generate-proxy      Generate a proxy certificate.
  --generate-crl        Generate a CRL.
  -u, --update-certificate
           Update a signed certificate.
  -p, --generate-privkey  Generate a private key.
  -q, --generate-request  Generate a PKCS #10 certificate
                           request.
  -e, --verify-chain     Verify a PEM encoded certificate chain.
                           The last certificate in the chain must
                           be a self signed one.
  --verify-crl          Verify a CRL.
  --generate-dh-params   Generate PKCS #3 encoded Diffie-Hellman
                           parameters.
```

```

--get-dh-params      Get the included PKCS #3 encoded Diffie
                    Hellman parameters.
--load-privkey FILE  Private key file to use.
--load-request FILE  Certificate request file to use.
--load-certificate FILE
                    Certificate file to use.
--load-ca-privkey FILE Certificate authority's private key
                    file to use.
--load-ca-certificate FILE
                    Certificate authority's certificate
                    file to use.
--password PASSWORD Password to use.
-i, --certificate-info Print information on a certificate.
-l, --crl-info        Print information on a CRL.
--p12-info            Print information on a PKCS #12
                    structure.
--p7-info             Print information on a PKCS #7
                    structure.
--smime-to-p7        Convert S/MIME to PKCS #7 structure.
-k, --key-info        Print information on a private key.
--fix-key            Regenerate the parameters in a private
                    key.
--to-p12             Generate a PKCS #12 structure.
-8, --pkcs8          Use PKCS #8 format for private keys.
--dsa                Use DSA keys.
--hash STR           Hash algorithm to use for signing
                    (MD5,SHA1,RMD160).
--export-ciphers     Use weak encryption algorithms.
--indef              Use DER format for input certificates
                    and private keys.
--outdef             Use DER format for output certificates
                    and private keys.
--bits BITS          specify the number of bits for key
                    generation.
--outfile FILE       Output file.
--infile FILE        Input file.
--template FILE      Template file to use for non
                    interactive operation.
-d, --debug LEVEL    specify the debug level. Default is 1.
-h, --help           shows this help text
-v, --version        shows the program's version

```

</pre>

<p>The program can be used interactively or non interactively by specifying the <code>--template</code> command line option. See below for an example of a template file.

<p>How to use certtool interactively:

- To generate parameters for Diffie-Hellman key exchange, use the command:
<pre class="example"> \$ certtool --generate-dh-params --outfile dh.pem</pre>

To generate parameters for the RSA-EXPORT key exchange, use the command:
<pre class="example"> \$ certtool --generate-privkey --bits 512 --outfile rsa.pem</pre>

- To create a self signed certificate, use the command:
<pre class="example"> \$ certtool --generate-privkey --outfile ca-key.pem
\$ certtool --generate-self-signed --load-privkey ca-key.pem \
--outfile ca-cert.pem</pre>
<p>Note that a self-signed certificate usually belongs to a certificate authority, that signs other certificates.

- To create a private key (RSA by default), run:

<pre class="example"> \$ certtool --generate-privkey --outfile key.pem</pre>
<p>To create a DSA private key, run:

<pre class="example"> \$ certtool --dsa --generate-privkey --outfile key-dsa.pem</pre>
To generate a certificate using the private key, use the command:

- <pre class="example"> \$ certtool --generate-certificate --load-privkey key.pem \
--outfile cert.pem --load-ca-certificate ca-cert.pem \
--load-ca-privkey ca-key.pem</pre>
To create a certificate request (needed when the certificate is issued by another party), run:

- <pre class="example"> \$ certtool --generate-request --load-privkey key.pem \
--outfile request.pem</pre>

- To generate a certificate using the previous request, use the command:

<pre class="example"> \$ certtool --generate-certificate --load-request request.pem \
--outfile cert.pem \
--load-ca-certificate ca-cert.pem --load-ca-privkey ca-key.pem</pre>
To view the certificate information, use:

- <pre class="example"> \$ certtool --certificate-info --infile cert.pem</pre>

</pre>

To generate a <acronym>PKCS</acronym> #12 structure using the previous key and certificate, use the command:

```
<pre class="example">    $ certtool --load-certificate cert.pem --load-privkey key.pem \
    --to-p12 --outder --outfile key.p12
```

</pre>

Proxy certificate can be used to delegate your credential to a temporary, typically short-lived, certificate. To create one from the previously created certificate, first create a temporary key and then generate a proxy certificate for it, using the commands:

```
<pre class="example">    $ certtool --generate-privkey &gt; proxy-key.pem
    $ certtool --generate-proxy --load-ca-privkey key.pem \
    --load-privkey proxy-key.pem --load-certificate cert.pem \
    --outfile proxy-cert.pem
```

</pre>

To create an empty Certificate Revocation List (CRL) do:

```
<pre class="example">    $ certtool --generate-crl --load-ca-privkey x509-ca-key.pem --load-ca-certificate
x509-ca.pem
```

</pre>

<p>To create a CRL that contains some revoked certificates, place the certificates in a file and use <code>--load-certificate</code> as follows:

```
<pre class="example">    $ certtool --generate-crl --load-ca-privkey x509-ca-key.pem --load-ca-certificate
x509-ca.pem --load-certificate revoked-certs.pem
```

</pre>

To verify a Certificate Revocation List (CRL) do:

```
<pre class="example">    $ certtool --verify-crl --load-ca-certificate x509-ca.pem &lt; crl.pem
```

</pre>

<p>Certtool's template file format:

Firstly create a file named 'cert.cfg' that contains the information about the certificate. An example file is listed below.

Then execute:

```
<pre class="example">    $ certtool --generate-certificate cert.pem --load-privkey key.pem \
    --template cert.cfg \
    --load-ca-certificate ca-cert.pem --load-ca-privkey ca-key.pem
```

</pre>

<p>An example certtool template file:

```
<pre class="example"> # X.509 Certificate options
#
# DN options

# The organization of the subject.
organization = "Koko inc."

# The organizational unit of the subject.
unit = "sleeping dept."

# The locality of the subject.
# locality =

# The state of the certificate owner.
state = "Attiki"

# The country of the subject. Two letter code.
country = GR

# The common name of the certificate owner.
cn = "Cindy Lauper"

# A user id of the certificate owner.
#uid = "clauper"

# If the supported DN OIDs are not adequate you can set
# any OID here.
# For example set the X.520 Title and the X.520 Pseudonym
# by using OID and string pairs.
#dn_oid = "2.5.4.12" "Dr." "2.5.4.65" "jackal"

# This is deprecated and should not be used in new
# certificates.
# pkcs9_email = "none@none.org"

# The serial number of the certificate
serial = 007

# In how many days, counting from today, this certificate will expire.
expiration_days = 700

# X.509 v3 extensions

# A dnsname in case of a WWW server.
#dns_name = "www.none.org"
#dns_name = "www.morethanone.org"
```



```
# An IP address in case of a server.
#ip_address = "192.168.1.1"

# An email in case of a person
email = "none@none.org"

# An URL that has CRLs (certificate revocation lists)
# available. Needed in CA certificates.
#crl_dist_points = "http://www.getcrl.crl/getcrl/"

# Whether this is a CA certificate or not
#ca

# Whether this certificate will be used for a TLS client
#tls_www_client

# Whether this certificate will be used for a TLS server
#tls_www_server

# Whether this certificate will be used to sign data (needed
# in TLS DHE ciphersuites).
signing_key

# Whether this certificate will be used to encrypt data (needed
# in TLS RSA ciphersuites). Note that it is preferred to use different
# keys for encryption and signing.
#encryption_key

# Whether this key will be used to sign other certificates.
#cert_signing_key

# Whether this key will be used to sign CRLs.
#crl_signing_key

# Whether this key will be used to sign code.
#code_signing_key

# Whether this key will be used to sign OCSP data.
#ocsp_signing_key

# Whether this key will be used for time stamping.
#time_stamping_key
</pre>
<div class="node">
<a name="Invoking-gnutls-cli"></a>
<a name="Invoking-gnutls_002dcli"></a>
<p><hr>
```

Next: Invoking gnutls-cli-debug,</p></div>
<div>
<p>Invoking certtool,</p>
<p>Up: Included programs</p>
</div>
<h3 class="section">8.2 Invoking gnutls-cli</h3>
<p></p>
Simple client program to set up a TLS connection to some other computer. It sets up a TLS connection and forwards data from the standard input to the secured socket and vice versa.
<pre class="verbatim">GNU TLS test client
Usage: gnutls-cli [options] hostname
-d, --debug integer Enable debugging
-r, --resume Connect, establish a session. Connect again and resume this session.
-s, --starttls Connect, establish a plain session and start TLS when EOF or a SIGALRM is received.
--crlf Send CR LF instead of LF.
--x509fmtder Use DER format for certificates to read from.
-f, --fingerprint Send the openpgp fingerprint, instead of the key.
--disable-extensions Disable all the TLS extensions.
--print-cert Print the certificate in PEM format.
--recordsize integer The maximum record size to advertize.
-V, --verbose More verbose output.
--ciphers cipher1 cipher2... Ciphers to enable.
--protocols protocol1 protocol2... Protocols to enable.
--comp comp1 comp2... Compression methods to enable.
--macs mac1 mac2... MACs to enable.
--kx kx1 kx2... Key exchange methods to enable.
--ctypes certType1 certType2... Certificate types to enable.
--priority PRIORITY STRING Priorities string.
--x509cafile FILE Certificate file to use.
--x509crlfile FILE CRL file to use.
--pgpkeyfile FILE PGP Key file to use.
--pgpkeyring FILE PGP Key ring file to use.
--pgpcertfile FILE PGP Public Key (certificate) file to use.
</pre>
<hr/>
Open Source Used In USC GAN R2.10 Application Software R2.10.34.9
370

```

        use.
--pgpsubkey HEX|auto    PGP subkey to use.
--x509keyfile FILE      X.509 key file to use.
--x509certfile FILE     X.509 Certificate file to use.
--srpusername NAME      SRP username to use.
--srppasswd PASSWD      SRP password to use.
--pskusername NAME      PSK username to use.
--pskkey KEY            PSK key (in hex) to use.
--opaque-prf-input DATA
                        Use Opaque PRF Input DATA.
-p, --port PORT         The port to connect to.
--insecure              Don't abort program if server
                        certificate can't be validated.
-l, --list              Print a list of the supported
                        algorithms and modes.
-h, --help              prints this help
-v, --version           prints the program's version number
</pre>

```

<p>To connect to a server using PSK authentication, you may use something like:

```

<pre class="smallexample"> $ gnutls-cli -p 5556 test.gnutls.org --pskusername jas --pskkey
9e32cf7786321a828ef7668f09fb35db --priority NORMAL:+PSK:-RSA:-DHE-RSA -d 4711
</pre>

```

<ul class="menu">

Example client PSK connection

<div class="node">

<p><hr>

Up: Invoking gnutls-cli

</div>

<h4 class="subsection">8.2.1 Example client PSK connection</h4>

<p>

If your server only supports the PSK ciphersuite, connecting to it should be as simple as connecting to the server:

```

<pre class="smallexample"> $ ./gnutls-cli -p 5556 localhost
Resolving 'localhost'...
Connecting to '127.0.0.1:5556'...
- PSK client callback. PSK hint 'psk_identity_hint'
Enter PSK identity: psk_identity
Enter password:

```

```
- PSK authentication. PSK hint 'psk_identity_hint'
- Version: TLS1.1
- Key Exchange: PSK
- Cipher: AES-128-CBC
- MAC: SHA1
- Compression: NULL
- Handshake was completed
```

- Simple Client Mode:

</pre>

<p>If the server supports several cipher suites, you may need to force it to chose PSK by using a cipher priority parameter such as

<code>--priority NORMAL:+PSK:-RSA:-DHE-RSA:-DHE-PSK</code>.

<p>Instead of using the Netconf-way to derive the PSK key from a password, you can also give the PSK username and key directly on the command line:

```
<pre class="smallexample"> $ ./gnutls-cli -p 5556 localhost --pskusername psk_identity --pskkey
88f3824b3e5659f52d00e959bacab954b6540344
```

```
Resolving 'localhost'...
```

```
Connecting to '127.0.0.1:5556'...
```

```
- PSK authentication. PSK hint 'psk_identity_hint'
```

```
- Version: TLS1.1
```

```
- Key Exchange: PSK
```

```
- Cipher: AES-128-CBC
```

```
- MAC: SHA1
```

```
- Compression: NULL
```

```
- Handshake was completed
```

- Simple Client Mode:

</pre>

<p>By keeping the <code>--pskusername</code> parameter and removing the <code>--pskkey</code> parameter, it will query only for the password during the handshake.

<div class="node">

<p><hr>

Next: Invoking gnutls-serv,&

Previous: Invoking gnutls-cli,&

Up: Included programs

</div>

<h3 class="section">8.3 Invoking gnutls-cli-debug</h3>

<p>

This program was created to assist in debugging <acronym>GnuTLS</acronym>, but it might be useful to extract a <acronym>TLS</acronym> server's capabilities.

It's purpose is to connect onto a <acronym>TLS</acronym> server, perform some tests and print the server's capabilities. If called with the '-v' parameter a more checks will be performed. An example output is:

```
crystal:/cvs/gnutls/src$ ./gnutls-cli-debug localhost -p 5556
Resolving 'localhost'...
Connecting to '127.0.0.1:5556'...
Checking for TLS 1.1 support... yes
Checking fallback from TLS 1.1 to... N/A
Checking for TLS 1.0 support... yes
Checking for SSL 3.0 support... yes
Checking for version rollback bug in RSA PMS... no
Checking for version rollback bug in Client Hello... no
Checking whether we need to disable TLS 1.0... N/A
Checking whether the server ignores the RSA PMS version... no
Checking whether the server can accept Hello Extensions... yes
Checking whether the server can accept cipher suites not in SSL 3.0 spec... yes
Checking whether the server can accept a bogus TLS record version in the client hello... yes
Checking for certificate information... N/A
Checking for trusted CAs... N/A
Checking whether the server understands TLS closure alerts... yes
Checking whether the server supports session resumption... yes
Checking for export-grade ciphersuite support... no
Checking RSA-export ciphersuite info... N/A
Checking for anonymous authentication support... no
Checking anonymous Diffie-Hellman group info... N/A
Checking for ephemeral Diffie-Hellman support... no
Checking ephemeral Diffie-Hellman group info... N/A
Checking for AES cipher support (TLS extension)... yes
Checking for 3DES cipher support... yes
Checking for ARCFOUR 128 cipher support... yes
Checking for ARCFOUR 40 cipher support... no
Checking for MD5 MAC support... yes
Checking for SHA1 MAC support... yes
Checking for ZLIB compression support (TLS extension)... yes
Checking for LZO compression support (GnuTLS extension)... yes
Checking for max record size (TLS extension)... yes
Checking for SRP authentication support (TLS extension)... yes
Checking for OpenPGP authentication support (TLS extension)... no
```

</pre>

<div class="node">

<p><hr>

Next: Invoking psktool,</p>

[Previous](#), [Invoking gnutls-cli-debug](#),

[Up](#) [Included programs](#)

</div>

8.4 Invoking gnutls-serv

[index-gnutls_002dserv-51](#)

Simple server program that listens to incoming TLS connections.

```
GNU TLS test server
```

```
Usage: gnutls-serv [options]
```

```
-d, --debug integer    Enable debugging
-g, --generate          Generate Diffie-Hellman Parameters.
-p, --port integer     The port to connect to.
-q, --quiet            Suppress some messages.
--nodb                 Does not use the resume database.
--http                 Act as an HTTP Server.
--echo                 Act as an Echo Server.
--dhparams FILE        DH params file to use.
--x509fmtder           Use DER format for certificates
--x509cafile FILE      Certificate file to use.
--x509crlfile FILE     CRL file to use.
--pgpkeyring FILE      PGP Key ring file to use.
--pgpkeyfile FILE      PGP Key file to use.
--pgpcertfile FILE     PGP Public Key (certificate) file to
                        use.
--pgpsubkey HEX[auto] PGP subkey to use.
--x509keyfile FILE     X.509 key file to use.
--x509certfile FILE    X.509 Certificate file to use.
--x509dsafile FILE     Alternative X.509 key file to use.
--x509dsacertfile FILE Alternative X.509 certificate file to
                        use.
-r, --require-cert     Require a valid certificate.
-a, --disable-client-cert
                        Disable request for a client
                        certificate.
--pskpasswd FILE       PSK password file to use.
--pskhint HINT         PSK identity hint to use.
--srpasswd FILE        SRP password file to use.
--srpasswdconf FILE    SRP password conf file to use.
--opaque-prf-input DATA
                        Use Opaque PRF Input DATA.
--ciphers cipher1 cipher2...
                        Ciphers to enable.
--protocols protocol1 protocol2...
```

```

                Protocols to enable.
--comp comp1 comp2...  Compression methods to enable.
--macs mac1 mac2...   MACs to enable.
--kx kx1 kx2...      Key exchange methods to enable.
--ctypes certType1 certType2...
                Certificate types to enable.
--priority PRIORITY STRING
                Priorities string.
-l, --list           Print a list of the supported
                    algorithms and modes.
-h, --help          prints this help
-v, --version       prints the program's version number
</pre>

```

8.4.1 Setting Up a Test HTTPS Server

Running your own TLS server based on GnuTLS can be useful when debugging clients and/or GnuTLS itself. This section describes how to use `gnutls-serv` as a simple HTTPS server.

The most basic server can be started as:

```

<pre class="example">  gnutls-serv --http
</pre>

```

It will only support anonymous ciphersuites, which many TLS clients refuse to use.

The next step is to add support for X.509. First we generate a CA:

```

<pre class="example">  certtool --generate-privkey &gt; x509-ca-key.pem
                    echo 'cn = GnuTLS test CA' &gt; ca.tmpl
                    echo 'ca' &gt;&gt; ca.tmpl
                    echo 'cert_signing_key' &gt;&gt; ca.tmpl
                    certtool --generate-self-signed --load-privkey x509-ca-key.pem \
                    --template ca.tmpl --outfile x509-ca.pem
                    ...
</pre>

```

Then generate a server certificate. Remember to change the `dns_name` value to the name of your server host, or skip that command to avoid the field.

```

<pre class="example">  certtool --generate-privkey &gt; x509-server-key.pem
                    echo 'organization = GnuTLS test server' &gt; server.tmpl
                    echo 'cn = test.gnutls.org' &gt;&gt; server.tmpl
                    echo 'tls_www_server' &gt;&gt; server.tmpl
                    echo 'encryption_key' &gt;&gt; server.tmpl
                    echo 'signing_key' &gt;&gt; server.tmpl

```

```
echo 'dns_name = test.gnutls.org' &gt;&gt; server.tpl
certtool --generate-certificate --load-privkey x509-server-key.pem \
  --load-ca-certificate x509-ca.pem --load-ca-privkey x509-ca-key.pem \
  --template server.tpl --outfile x509-server.pem
```

...

</pre>

<p>For use in the client, you may want to generate a client certificate as well.

```
<pre class="example"> certtool --generate-privkey &gt; x509-client-key.pem
echo 'cn = GnuTLS test client' &gt;&gt; client.tpl
echo 'tls_www_client' &gt;&gt; client.tpl
echo 'encryption_key' &gt;&gt; client.tpl
echo 'signing_key' &gt;&gt; client.tpl
certtool --generate-certificate --load-privkey x509-client-key.pem \
  --load-ca-certificate x509-ca.pem --load-ca-privkey x509-ca-key.pem \
  --template client.tpl --outfile x509-client.pem
```

...

</pre>

<p>To be able to import the client key/certificate into some applications, you will need to convert them into a PKCS#12 structure. This also encrypts the security sensitive key with a password.

```
<pre class="example"> certtool --to-p12 --load-privkey x509-client-key.pem --load-certificate x509-client.pem --
outder --outfile x509-client.p12
```

</pre>

<p>For icing, we'll create a proxy certificate for the client too.

```
<pre class="example"> certtool --generate-privkey &gt; x509-proxy-key.pem
echo 'cn = GnuTLS test client proxy' &gt;&gt; proxy.tpl
certtool --generate-proxy --load-privkey x509-proxy-key.pem \
  --load-ca-certificate x509-client.pem --load-ca-privkey x509-client-key.pem \
  --load-certificate x509-client.pem --template proxy.tpl \
  --outfile x509-proxy.pem
```

...

</pre>

<p>Then start the server again:

```
<pre class="example"> gnutls-serv --http \
  --x509cafile x509-ca.pem \
  --x509keyfile x509-server-key.pem \
  --x509certfile x509-server.pem
```

</pre>

<p>Try connecting to the server using your web browser. Note that the server listens to port 5556 by default.

<p>While you are at it, to allow connections using DSA, you can also create a DSA key and certificate for the server. These credentials

will be used in the final example below.

```
<pre class="example"> certtool --generate-privkey --dsa &gt; x509-server-key-dsa.pem
certtool --generate-certificate --load-privkey x509-server-key-dsa.pem \
--load-ca-certificate x509-ca.pem --load-ca-privkey x509-ca-key.pem \
--template server.tmpl --outfile x509-server-dsa.pem
```

...

```
</pre>
```

<p>The next step is to create OpenPGP credentials for the server.

```
<pre class="example"> gpg --gen-key
...enter whatever details you want, use 'test.gnutls.org' as name...
```

```
</pre>
```

<p>Make a note of the OpenPGP key identifier of the newly generated key, here it was `5D1D14D8`. You will need to export the key for GnuTLS to be able to use it.

```
<pre class="example"> gpg -a --export 5D1D14D8 &gt; openpgp-server.txt
gpg --export 5D1D14D8 &gt; openpgp-server.bin
gpg --export-secret-keys 5D1D14D8 &gt; openpgp-server-key.bin
gpg -a --export-secret-keys 5D1D14D8 &gt; openpgp-server-key.txt
```

```
</pre>
```

<p>Let's start the server with support for OpenPGP credentials:

```
<pre class="example"> gnutls-serv --http \
--pgpkeyfile openpgp-server-key.txt \
--pgpcertfile openpgp-server.txt
```

```
</pre>
```

<p>The next step is to add support for SRP authentication.

```
<pre class="example"> srptool --create-conf srp-tpasswd.conf
srptool --passwd-conf srp-tpasswd.conf --username jas --passwd srp-passwd.txt
Enter password: [TYPE "foo"]
```

```
</pre>
```

<p>Start the server with SRP support:

```
<pre class="example"> gnutls-serv --http \
--srppasswdconf srp-tpasswd.conf \
--srppasswd srp-passwd.txt
```

```
</pre>
```

<p>Let's also add support for PSK.

```
<pre class="example"> $ psktool --passwd psk-passwd.txt
```

```
</pre>
```

<p>Start the server with PSK support:

```
<pre class="example"> gnutls-serv --http \
--pskpasswd psk-passwd.txt
```

</pre>

<p>Finally, we start the server with all the earlier parameters and you get this command:

```
<pre class="example">  gnutls-serv --http \  
    --x509cafile x509-ca.pem \  
    --x509keyfile x509-server-key.pem \  
    --x509certfile x509-server.pem \  
    --x509dsafile x509-server-key-dsa.pem \  
    --x509dsacertfile x509-server-dsa.pem \  
    --pgpkeyfile openpgp-server-key.txt \  
    --pgpcertfile openpgp-server.txt \  
    --srppasswdconf srp-tpasswd.conf \  
    --srppasswd srp-passwd.txt \  
    --pskpasswd psk-passwd.txt
```

</pre>

<ul class="menu">

Example server PSK connection

<div class="node">

<p><hr>

Up: Invoking gnutls-serv

</div>

<h4 class="subsection">8.4.2 Example server PSK connection</h4>

<p>

To set up a PSK server with <code>gnutls-serv</code> you need to create PSK password file (see Invoking psktool). In the example below, I type <code>password</code> at the prompt.

```
<pre class="smallexample">  $ ./psktool -u psk_identity -p psks.txt -n psk_identity_hint  
  Enter password:  
  Key stored to psks.txt  
  $ cat psks.txt  
  psk_identity:88f3824b3e5659f52d00e959bacab954b6540344  
  $
```

</pre>

<p>After this, start the server pointing to the password file. We disable DHE-PSK.

```
<pre class="smallexample">  $ ./gnutls-serv --pskpasswd psks.txt --pskhint psk_identity_hint --priority  
NORMAL:-DHE-PSK
```

Set static Diffie-Hellman parameters, consider --dhparams.

Echo Server ready. Listening to port '5556'.

```

</pre>
<p>You can now connect to the server using a PSK client (see <a href="#Example-client-PSK-connection">Example client PSK connection</a>).

<div class="node">
<a name="Invoking-psktool"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Invoking-srptool">Invoking srptool</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Invoking-gnutls_002dserv">Invoking gnutls-serv</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Included-programs">Included programs</a>

</div>

```

8.5 Invoking psktool

<p>
This is a program to manage <acronym>PSK</acronym> username and keys.

```

<pre class="verbatim">PSKtool help
Usage : psktool [options]
  -u, --username username
           specify username.
  -p, --passwd FILE    specify a password file.
  -n, --netconf-hint HINT
           derive key from Netconf password, using
           HINT as the psk_identity_hint.
  -s, --keysize SIZE   specify the key size in bytes.
  -v, --version         prints the program's version number
  -h, --help           shows this help text
</pre>

```

<p>Normally the file will generate random keys for the indicate username. You may also derive PSK keys from passwords, using the algorithm specified in <samp>draft-ietf-netconf-tls-02.txt</samp>. The algorithm needs a PSK identity hint, which you specify using <code>--netconf-hint</code>. To derive a PSK key from a password with an empty PSK identity hint, using <code>--netconf-hint ""</code>.

```

<div class="node">
<a name="Invoking-srptool"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Invoking-psktool">Invoking psktool</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Included-programs">Included programs</a>

</div>

```

8.6 Invoking srptool

<p>

The <samp>srptool</samp> is a very simple program that emulates the programs in the Stanford SRP libraries, see http://srp.stanford.edu/. It is intended for use in places where you don't expect <acronym>SRP</acronym> authentication to be the used for system users.

<p>Traditionally libsrp used two files. One called <code>tpasswd</code> which holds usernames and verifiers, and <code>tpasswd.conf</code> which holds generators and primes.

<p>How to use srptool:

To create tpasswd.conf which holds the g and n values for <acronym>SRP</acronym> protocol (generator and a large prime), run:

```
<pre class="example">    $ srptool --create-conf /etc/tpasswd.conf</pre>
```

This command will create /etc/tpasswd and will add user 'test' (you will also be prompted for a password). Verifiers are stored by default in the way libsrp expects.

```
<pre class="example">    $ srptool --passwd /etc/tpasswd \  
    --passwd-conf /etc/tpasswd.conf -u test</pre>
```

This command will check against a password. If the password matches the one in /etc/tpasswd you will get an ok.

```
<pre class="example">    $ srptool --passwd /etc/tpasswd \  
    --passwd-conf /etc/tpasswd.conf --verify -u test</pre>
```


<div class="node">

<p><hr>

Next: All the supported ciphersuites in GnuTLS,&

Previous: Included programs,&

Up: Top

</div>

<h2 class="chapter">9 Function Reference</h2>

<p>

```
<ul class="menu">
<li><a accesskey="1" href="#Core-functions">Core functions</a>
<li><a accesskey="2" href="#X_002e509-certificate-functions">X.509 certificate functions</a>
<li><a accesskey="3" href="#GnuTLS_002dextra-functions">GnuTLS-extra functions</a>
<li><a accesskey="4" href="#OpenPGP-functions">OpenPGP functions</a>
<li><a accesskey="5" href="#TLS-Inner-Application-_0028TLS_002fIA_0029-functions">TLS Inner Application
(TLS/IA) functions</a>
<li><a accesskey="6" href="#Error-codes-and-descriptions">Error codes and descriptions</a>
</ul>
```

```
<div class="node">
<a name="Core-functions"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#X_002e509-certificate-functions">X.509 certificate
functions</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Function-reference">Function reference</a>

</div>
```

9.1 Core Functions

The prototypes for the following functions lie in `gnutls/gnutls.h`.

`gnutls_alert_get_name`

`gnutls_alert_get_name`

Function: `const char * gnutls_alert_get_name` (`gnutls_alert_description_t alert`)
`gnutls_alert_get_name` returns a string describing the given alert number.

This function will return a string that describes the given alert number, or `NULL`. See `gnutls_alert_get`.

Returns: string corresponding to `gnutls_alert_description_t` value.

`gnutls_alert_get`

`gnutls_alert_get`

Function: `gnutls_alert_description_t gnutls_alert_get` (`gnutls_session_t session`)
`gnutls_alert_get` returns a `gnutls_alert_description_t` structure.

<p>This function will return the last alert number received. This function should be called if <code>GNUTLS_E_WARNING_ALERT_RECEIVED</code> or <code>GNUTLS_E_FATAL_ALERT_RECEIVED</code> has been returned by a gnutls function. The peer may send alerts if he thinks some things were not right. Check gnutls.h for the available alert descriptions.

<p>If no alert has been received the returned value is undefined.

<p>Returns: returns the last alert received, a <code>gnutls_alert_description_t</code> value.
</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_alert_send_appropriate (<var>gnutls_session_t session, int err</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure. <p><var>err</var>: is an integer <p>Sends an alert to the peer depending on the error code returned by a gnutls function. This function will call <code>gnutls_error_to_alert()</code> to determine the appropriate alert to send. <p>This function may also return <code>GNUTLS_E_AGAIN</code>, or <code>GNUTLS_E_INTERRUPTED</code>. <p>If the return value is <code>GNUTLS_E_INVALID_REQUEST</code>, then no alert has been sent to the peer. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise an error code is returned. </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_alert_send (<var>gnutls_session_t session, gnutls_alert_level_t level, gnutls_alert_description_t desc</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure. <p><var>level</var>: is the level of the alert --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 382

<p><var>desc</var>: is the alert description

<p>This function will send an alert to the peer in order to inform him of something important (eg. his Certificate could not be verified). If the alert level is Fatal then the peer is expected to close the connection, otherwise he may ignore the alert and continue.

<p>The error code of the underlying record send function will be returned, so you may also receive <code>GNUTLS_E_INTERRUPTED</code> or <code>GNUTLS_E_AGAIN</code> as well.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_anon_allocate_client_credentials</h4>

<p>

<div class="defun">

— Function: int gnutls_anon_allocate_client_credentials (<var>gnutls_anon_client_credentials_t * sc</var>)<var></var>
<blockquote><p><var>sc</var>: is a pointer to a <code>gnutls_anon_client_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

<h4 class="subheading">gnutls_anon_allocate_server_credentials</h4>

<p>

<div class="defun">

— Function: int gnutls_anon_allocate_server_credentials (<var>gnutls_anon_server_credentials_t * sc</var>)<var></var>
<blockquote><p><var>sc</var>: is a pointer to a <code>gnutls_anon_server_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

<h4 class="subheading">gnutls_anon_free_client_credentials</h4>

<p>

— Function: void **gnutls_anon_free_client_credentials** (`gnutls_anon_client_credentials_t sc`)
`gnutls_anon_free_client_credentials`: is a `gnutls_anon_client_credentials_t` structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_anon_free_server_credentials

[gnutls_anon_free_server_credentials](#)

— Function: void **gnutls_anon_free_server_credentials** (`gnutls_anon_server_credentials_t sc`)
`gnutls_anon_free_server_credentials`: is a `gnutls_anon_server_credentials_t` structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_anon_set_params_function

[gnutls_anon_set_params_function](#)

— Function: void **gnutls_anon_set_params_function** (`gnutls_anon_server_credentials_t res`, `gnutls_params_function * func`)
`gnutls_anon_set_params_function`: is a `gnutls_anon_server_credentials_t` structure

`func`: is the function to be called

This function will set a callback in order for the server to get the Diffie-Hellman or RSA parameters for anonymous authentication. The callback should return zero on success.

gnutls_anon_set_server_dh_params

[gnutls_anon_set_server_dh_params](#)

— Function: void **gnutls_anon_set_server_dh_params** (`gnutls_anon_server_credentials_t res`, `gnutls_dh_params_t dh_params`)
`gnutls_anon_set_server_dh_params`: is a `gnutls_anon_server_credentials_t` structure

`res`: is a `gnutls_anon_server_credentials_t` structure

`dh_params`: is a structure that holds Diffie-Hellman parameters.

This function will set the Diffie-Hellman parameters for an anonymous server to use. These parameters will be used in Anonymous Diffie-Hellman cipher suites.

gnutls_anon_set_server_params_function

Function: void `gnutls_anon_set_server_params_function` (`gnutls_anon_server_credentials_t res`, `gnutls_params_function * func`)
`index-gnutls_005fanon_005fset_005fserver_005fparams_005ffunction-68`

`res`: is a `gnutls_certificate_credentials_t` structure

`func`: is the function to be called

This function will set a callback in order for the server to get the Diffie-Hellman parameters for anonymous authentication. The callback should return zero on success.

gnutls_auth_client_get_type

Function: `gnutls_credentials_type_t` `gnutls_auth_client_get_type` (`gnutls_session_t session`)
`index-gnutls_005fauth_005fclient_005fget_005ftype-69`

`session`: is a `gnutls_session_t` structure.

Returns the type of credentials that were used for client authentication. The returned information is to be used to distinguish the function used to access authentication data.

Returns: The type of credentials for the client authentication schema, a `gnutls_credentials_type_t` type.

gnutls_auth_get_type

— Function: `gnutls_credentials_type_t` `gnutls_auth_get_type` (`gnutls_session_t session`)
<var></var>

<blockquote><p><var>session</var>: is a `gnutls_session_t` structure.

<p>Returns type of credentials for the current authentication schema.
The returned information is to be used to distinguish the function used to access authentication data.

<p>Eg. for CERTIFICATE ciphersuites (key exchange algorithms: `GNUTLS_KX_RSA`, `GNUTLS_KX_DHE_RSA`), the same function are to be used to access the authentication data.

<p>Returns: The type of credentials for the current authentication schema, a `gnutls_credentials_type_t` type.
</p></blockquote></div>

gnutls_auth_server_get_type

<p>

<div class="defun">

— Function: `gnutls_credentials_type_t` `gnutls_auth_server_get_type` (`gnutls_session_t session`)
<var></var>

<blockquote><p><var>session</var>: is a `gnutls_session_t` structure.

<p>Returns the type of credentials that were used for server authentication.
The returned information is to be used to distinguish the function used to access authentication data.

<p>Returns: The type of credentials for the server authentication schema, a `gnutls_credentials_type_t` type.
</p></blockquote></div>

gnutls_bye

<p>

<div class="defun">

— Function: `int` `gnutls_bye` (`gnutls_session_t session`, `gnutls_close_request_t how`)
<var></var>

<blockquote><p><var>session</var>: is a `gnutls_session_t` structure.

<p><var>how</var>: is an integer

<p>Terminates the current TLS/SSL connection. The connection should have been initiated using `gnutls_handshake()`. `how` should be one of `GNUTLS_SHUT_RDWR`, `GNUTLS_SHUT_WR`.

In case of `GNUTLS_SHUT_RDWR` then the TLS connection gets terminated and further receives and sends will be disallowed. If the return value is zero you may continue using the connection. `GNUTLS_SHUT_RDWR` actually sends an alert containing a close request and waits for the peer to reply with the same message.

In case of `GNUTLS_SHUT_WR` then the TLS connection gets terminated and further sends will be disallowed. In order to reuse the connection you should wait for an EOF from the peer. `GNUTLS_SHUT_WR` sends an alert containing a close request.

Note that not all implementations will properly terminate a TLS connection. Some of them, usually for performance reasons, will terminate only the underlying transport layer, thus causing a transmission error to the peer. This error cannot be distinguished from a malicious party prematurely terminating the session, thus this behavior is not recommended.

This function may also return `GNUTLS_E_AGAIN` or `GNUTLS_E_INTERRUPTED`; cf. `gnutls_record_get_direction()`.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code, see function documentation for entire semantics.

gnutls_certificate_activation_time_peers

[gnutls_certificate_activation_time_peers](#)

Function: `time_t gnutls_certificate_activation_time_peers(gnutls_session_t session)`

`gnutls_session_t session` is a gnutls session

`session`: is a gnutls session

This function will return the peer's certificate activation time. This is the creation time for openpgp keys.

Returns: (time_t)-1 on error.

Deprecated: `gnutls_certificate_verify_peers2()` now verifies activation times.

gnutls_certificate_allocate_credentials

[gnutls_certificate_allocate_credentials](#)

<div class="defun">

— Function: int gnutls_certificate_allocate_credentials (<var>gnutls_certificate_credentials_t *res</var>)<var></var>
<blockquote><p><var>res</var>: is a pointer to a <code>gnutls_certificate_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_client_get_request_status</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_client_get_request_status (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p>Get whether client certificate is requested or not.

<p>Returns: 0 if the peer (server) did not request client authentication or 1 otherwise, or a negative value in case of error.

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_client_set_retrieve_function</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_client_set_retrieve_function

(<var>gnutls_certificate_credentials_t cred, gnutls_certificate_client_retrieve_function * func</var>)<var></var>

<blockquote><p><var>cred</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>func</var>: is the callback function

<p>This function sets a callback to be called in order to retrieve the certificate to be used in the handshake.

The callback's function prototype is:

```
int (*callback)(gnutls_session_t, const gnutls_datum_t* req_ca_dn, int nreqs,
const gnutls_pk_algorithm_t* pk_algos, int pk_algos_length, gnutls_retr_st* st);
```

<p><code>req_ca_cert</code> is only used in X.509 certificates.

Contains a list with the CA names that the server considers trusted.

Normally we should send a certificate that is signed by one of these CAs. These names are DER encoded. To get a more meaningful value use the function `gnutls_x509_rdn_get()`.

`pk_algos` contains a list with server's acceptable signature algorithms. The certificate returned should support the server's given algorithms.

`st` should contain the certificates and private keys.

If the callback function is provided then gnutls will call it, in the handshake, after the certificate request message has been received.

The callback function should set the certificate list to be sent, and return 0 on success. If no certificate was selected then the number of certificates should be set to zero. The value (-1) indicates error and the handshake will be terminated.

gnutls_certificate_expiration_time_peers

[gnutls_certificate_expiration_time_peers](#)

Function:

`gnutls_certificate_expiration_time_peers` (`gnutls_session_t session`)
[index-gnutls_certificate_expiration_time_peers-77](#)

`session`: is a gnutls session

This function will return the peer's certificate expiration time.

Returns: (time_t)-1 on error.

Deprecated: `gnutls_certificate_verify_peers2()` now verifies expiration times.

gnutls_certificate_free_ca_names

[gnutls_certificate_free_ca_names](#)

Function:

`gnutls_certificate_free_ca_names` (`gnutls_certificate_credentials_t sc`)
[index-gnutls_certificate_free_ca_names-78](#)

`sc`: is a `gnutls_certificate_credentials_t` structure.

This function will delete all the CA name in the given credentials. Clients may call this to save some memory since in client side the CA names are not used.

<p>CA names are used by servers to advertize the CAs they support to clients.
</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_free_cas</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_free_cas (<var>gnutls_certificate_credentials_t sc</var>)<var></var>
<blockquote><p><var>sc</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p>This function will delete all the CAs associated with the given credentials. Servers that do not use <code>gnutls_certificate_verify_peers2()</code> may call this to save some memory.
</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_free_credentials</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_free_credentials (<var>gnutls_certificate_credentials_t sc</var>)<var></var>
<blockquote><p><var>sc</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

<p>This function does not free any temporary parameters associated with this structure (ie RSA and DH parameters are not freed by this function).
</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_free_crls</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_free_crls (<var>gnutls_certificate_credentials_t sc</var>)<var></var>
<blockquote><p><var>sc</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p>This function will delete all the CRLs associated with the given credentials.

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_free_keys</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_free_keys (<var>gnutls_certificate_credentials_t sc</var><var></var>
<blockquote><p><var>sc</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p>This function will delete all the keys and the certificates associated with the given credentials. This function must not be called when a TLS negotiation that uses the credentials is in progress.

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_get_openpgp_keyring</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_get_openpgp_keyring (<var>gnutls_certificate_credentials_t sc, gnutls_openpgp_keyring_t * keyring</var><var></var>
<blockquote><p><var>sc</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>keyring</var>: the exported keyring. Should be treated as constant

<p>This function will export the OpenPGP keyring associated with the given credentials.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_get_ours</h4>

<p>

<div class="defun">

— Function: const gnutls_datum_t * gnutls_certificate_get_ours (<var>gnutls_session_t session</var><var></var>
<blockquote><p><var>session</var>: is a gnutls session

<p>Get the certificate as sent to the peer, in the last handshake. These certificates are in raw format. In X.509 this is a certificate list. In OpenPGP this is a single certificate.

<p>Returns: return a pointer to a <code>gnutls_datum_t</code> containing our

certificates, or `NULL` in case of an error or if no certificate was used.

gnutls_certificate_get_peers

— Function: `const gnutls_datum_t * gnutls_certificate_get_peers` (`gnutls_session_t session`, `unsigned int * list_size`)
Returns: `gnutls_certificate_get_peers` returns a pointer to a `gnutls_datum_t` containing our certificates, or `NULL` in case of an error or if no certificate was used.

`session`: is a `gnutls_session`

`list_size`: is the length of the certificate list

Get the peer's raw certificate (chain) as sent by the peer. These certificates are in raw format (DER encoded for X.509). In case of a X.509 then a certificate list may be present. The first certificate in the list is the peer's certificate, following the issuer's certificate, then the issuer's issuer etc.

In case of OpenPGP keys a single key will be returned in raw format.

Returns: return a pointer to a `gnutls_datum_t` containing our certificates, or `NULL` in case of an error or if no certificate was used.

gnutls_certificate_get_x509_cas

— Function: `void gnutls_certificate_get_x509_cas` (`gnutls_certificate_credentials_t sc`, `gnutls_x509_cert_t ** x509_ca_list`, `unsigned int * ncas`)
Returns: `gnutls_certificate_get_x509_cas` returns a pointer to a `gnutls_certificate_credentials_t` structure.

`sc`: is a `gnutls_certificate_credentials_t` structure.

`x509_ca_list`: will point to the CA list. Should be treated as constant

`ncas`: the number of CAs

This function will export all the CAs associated with the given credentials.

Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_get_x509_crls</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_get_x509_crls (<var>gnutls_certificate_credentials_t sc, gnutls_x509_crl_t ** x509_crl_list, unsigned int * ncrs</var><var></var>

<blockquote><p><var>sc</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>x509_crl_list</var>: the exported CRL list. Should be treated as constant

<p><var>ncrs</var>: the number of exported CRLs

<p>This function will export all the CRLs associated with the given credentials.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_send_x509_rdn_sequence</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_send_x509_rdn_sequence (<var>gnutls_session_t session, int status</var><var></var>

<blockquote><p><var>session</var>: is a pointer to a <code>gnutls_session_t</code> structure.

<p><var>status</var>: is 0 or 1

<p>If status is non zero, this function will order gnutls not to send the rdnSequence in the certificate request message. That is the server will not advertize it's trusted CAs to the peer. If status is zero then the default behaviour will take effect, which is to advertize the server's trusted CAs.

<p>This function has no effect in clients, and in authentication methods other than certificate with X.509 certificates.

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_server_set_request</h4>

<p>

<div class="defun">

— Function: void gnutls_certificate_server_set_request (<var>gnutls_session_t session, gnutls_certificate_request_t req</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>req</var>: is one of GNUTLS_CERT_REQUEST, GNUTLS_CERT_REQUIRE

<p>This function specifies if we (in case of a server) are going to send a certificate request message to the client. If <code>req</code> is GNUTLS_CERT_REQUIRE then the server will return an error if the peer does not provide a certificate. If you do not call this function then the client will not be asked to send a certificate.

</p></blockquote></div>

gnutls_certificate_server_set_retrieve_function

<p>

<div class="defun">

— Function: void gnutls_certificate_server_set_retrieve_function (<var>gnutls_certificate_credentials_t cred, gnutls_certificate_server_retrieve_function * func</var>)<var></var>
<blockquote><p><var>cred</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>func</var>: is the callback function

<p>This function sets a callback to be called in order to retrieve the certificate to be used in the handshake.

The callback's function prototype is:

```
int (*callback)(gnutls_session_t, gnutls_retr_st* st);
```

<p><code>st</code> should contain the certificates and private keys.

<p>If the callback function is provided then gnutls will call it, in the handshake, after the certificate request message has been received.

<p>The callback function should set the certificate list to be sent, and return 0 on success. The value (-1) indicates error and the handshake will be terminated.

</p></blockquote></div>

gnutls_certificate_set_dh_params

<p>

<div class="defun">

— Function: void **gnutls_certificate_set_dh_params** (<var>gnutls_certificate_credentials_t res, gnutls_dh_params_t dh_params</var><var>index-gnutls_005fcertificate_005fset_005fdh_005fparams-91</var>

<blockquote><p><var>res</var>: is a gnutls_certificate_credentials_t structure

<p><var>dh_params</var>: is a structure that holds Diffie-Hellman parameters.

<p>This function will set the Diffie-Hellman parameters for a certificate server to use. These parameters will be used in Ephemeral Diffie-Hellman cipher suites. Note that only a pointer to the parameters are stored in the certificate handle, so if you deallocate the parameters before the certificate is deallocated, you must change the parameters stored in the certificate first.
</p></blockquote></div>

gnutls_certificate_set_params_function

<p>gnutls_005fcertificate_005fset_005fparams_005ffunction

<div class="defun">

— Function: void **gnutls_certificate_set_params_function** (<var>gnutls_certificate_credentials_t res, gnutls_params_function * func</var><var>index-gnutls_005fcertificate_005fset_005fparams_005ffunction-92</var>

<blockquote><p><var>res</var>: is a gnutls_certificate_credentials_t structure

<p><var>func</var>: is the function to be called

<p>This function will set a callback in order for the server to get the Diffie-Hellman or RSA parameters for certificate authentication. The callback should return zero on success.
</p></blockquote></div>

gnutls_certificate_set_rsa_export_params

<p>gnutls_005fcertificate_005fset_005frsa_005fexport_005fparams

<div class="defun">

— Function: void **gnutls_certificate_set_rsa_export_params** (<var>gnutls_certificate_credentials_t res, gnutls_rsa_params_t rsa_params</var><var>index-gnutls_005fcertificate_005fset_005frsa_005fexport_005fparams-93</var>

<blockquote><p><var>res</var>: is a gnutls_certificate_credentials_t structure

<p><var>rsa_params</var>: is a structure that holds temporary RSA parameters.

<p>This function will set the temporary RSA parameters for a certificate server to use. These parameters will be used in RSA-EXPORT cipher suites.
</p></blockquote></div>

gnutls_certificate_set_verify_flags

[gnutls_005fcertificate_005fset_005fverify_005fflags](#)

Function: void `gnutls_certificate_set_verify_flags` (`gnutls_certificate_credentials_t` res, unsigned int flags)

`gnutls_certificate_set_verify_flags` enumerations.

`res`: is a `gnutls_certificate_credentials_t` structure

`flags`: are the flags

This function will set the flags to be used at verification of the certificates. Flags must be OR of the `gnutls_certificate_verify_flags` enumerations.

gnutls_certificate_set_verify_limits

[gnutls_005fcertificate_005fset_005fverify_005flimits](#)

Function: void `gnutls_certificate_set_verify_limits` (`gnutls_certificate_credentials_t` res, unsigned int max_bits, unsigned int max_depth)

`gnutls_certificate_set_verify_limits` structure

`res`: is a `gnutls_certificate_credentials` structure

`max_bits`: is the number of bits of an acceptable certificate (default 8200)

`max_depth`: is maximum depth of the verification of a certificate chain (default 5)

This function will set some upper limits for the default verification function, `gnutls_certificate_verify_peers2()`, to avoid denial of service attacks. You can set them to zero to disable limits.

gnutls_certificate_set_x509_crl_file

[gnutls_005fcertificate_005fset_005fx509_005fcrl_005ffile](#)

Function: int `gnutls_certificate_set_x509_crl_file` (`gnutls_certificate_credentials_t` res, const char * crlfile, `gnutls_x509_crt_fmt_t` type)

`gnutls_certificate_set_x509_crl_file` structure

`res`: is a `gnutls_certificate_credentials_t` structure.

<p><var>crlfile</var>: is a file containing the list of verified CRLs (DER or PEM list)

<p><var>type</var>: is PEM or DER

<p>This function adds the trusted CRLs in order to verify client or server certificates. In case of a client this is not required to be called if the certificates are not verified using <code>gnutls_certificate_verify_peers2()</code>. This function may be called multiple times.

<p>Returns: number of CRLs processed or a negative value on error.</p></blockquote></div>

gnutls_certificate_set_x509_crl_mem</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_set_x509_crl_mem (<var>gnutls_certificate_credentials_t res, const gnutls_datum_t * CRL, gnutls_x509_crt_fmt_t type</var>)<var></var>
<blockquote><p><var>res</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>CRL</var>: is a list of trusted CRLs. They should have been verified before.

<p><var>type</var>: is DER or PEM

<p>This function adds the trusted CRLs in order to verify client or server certificates. In case of a client this is not required to be called if the certificates are not verified using <code>gnutls_certificate_verify_peers2()</code>. This function may be called multiple times.

<p>Returns: number of CRLs processed, or a negative value on error.</p></blockquote></div>

gnutls_certificate_set_x509_crl</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_set_x509_crl (<var>gnutls_certificate_credentials_t res, gnutls_x509_crl_t * crl_list, int crl_list_size</var>)<var></var>
<blockquote><p><var>res</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>crl_list</var>: is a list of trusted CRLs. They should have been verified before.

<p><var>crl_list_size</var>: holds the size of the crl_list

<p>This function adds the trusted CRLs in order to verify client or server certificates. In case of a client this is not required to be called if the certificates are not verified using <code>gnutls_certificate_verify_peers2()</code>. This function may be called multiple times.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

<p>Since: 2.4.0

</p></blockquote></div>

gnutls_certificate_set_x509_key_file

<p>

<div class="defun">

— Function: int gnutls_certificate_set_x509_key_file (<var>gnutls_certificate_credentials_t res, const char * certfile, const char * keyfile, gnutls_x509 crt_fmt_t type</var><var></var>

<blockquote><p><var>res</var>: is a <code>gnutls_certificate_credentials_t</code> structure.

<p><var>certfile</var>: is a file that containing the certificate list (path) for the specified private key, in PKCS7 format, or a list of certificates

<p><var>keyfile</var>: is a file that contains the private key

<p><var>type</var>: is PEM or DER

<p>This function sets a certificate/private key pair in the gnutls_certificate_credentials_t structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

<p>Currently only PKCS-1 encoded RSA and DSA private keys are accepted by this function.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

gnutls_certificate_set_x509_key_mem

<p>

<div class="defun">

— Function: int gnutls_certificate_set_x509_key_mem (<var>gnutls_certificate_credentials_t res, const gnutls_datum_t * cert, const gnutls_datum_t * key, gnutls_x509 crt_fmt_t type</var><var><a name="index-

`gnutls_005fcertificate_005fset_005fx509_005fkey_005fmem-100`"></var>

<blockquote><p><var>res</var>: is a `gnutls_certificate_credentials_t` structure.

<p><var>cert</var>: contains a certificate list (path) for the specified private key

<p><var>key</var>: is the private key, or `NULL`

<p><var>type</var>: is PEM or DER

<p>This function sets a certificate/private key pair in the `gnutls_certificate_credentials_t` structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

<p>Currently are supported: RSA PKCS-1 encoded private keys, DSA private keys.

<p>DSA private keys are encoded the OpenSSL way, which is an ASN.1 DER sequence of 6 INTEGERS - version, p, q, g, pub, priv.

<p>Note that the keyUsage (2.5.29.15) PKIX extension in X.509 certificates is supported. This means that certificates intended for signing cannot be used for ciphersuites that require encryption.

<p>If the certificate and the private key are given in PEM encoding then the strings that hold their values must be null terminated.

<p>The `key` may be `NULL` if you are using a sign callback, see `gnutls_sign_callback_set()`.

<p>Returns: `GNUTLS_E_SUCCESS` on success, or an error code.
</p></blockquote></div>

gnutls_certificate_set_x509_key

<p>

<div class="defun">

— Function: int `gnutls_certificate_set_x509_key` (`gnutls_certificate_credentials_t res`, `gnutls_x509_crt_t * cert_list`, `int cert_list_size`, `gnutls_x509_privkey_t key`)<var></var>

<blockquote><p><var>res</var>: is a `gnutls_certificate_credentials_t` structure.

<p><var>cert_list</var>: contains a certificate list (path) for the specified private key

<p><var>cert_list_size</var>: holds the size of the certificate list

<p><var>key</var>: is a `gnutls_x509_privkey_t` key

This function sets a certificate/private key pair in the `gnutls_certificate_credentials_t` structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

Since: 2.4.0

gnutls_certificate_set_x509_simple_pkcs12_file

[gnutls_005fcertificate_005fset_005fx509_005fsimple_005fpkcs12_005ffile](#)

Function: int `gnutls_certificate_set_x509_simple_pkcs12_file`

(`gnutls_certificate_credentials_t` res, const char * pkcs12file, `gnutls_x509 crt_fmt_t` type, const char * password)

[index-gnutls_005fcertificate_005fset_005fx509_005fsimple_005fpkcs12_005ffile-102](#)

`res`: is a `gnutls_certificate_credentials_t` structure.

`pkcs12file`: filename of file containing PKCS12 blob.

`type`: is PEM or DER of the `pkcs12file`.

`password`: optional password used to decrypt PKCS12 file, bags and keys.

This function sets a certificate/private key pair and/or a CRL in the `gnutls_certificate_credentials_t` structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

MAC: ed PKCS12 files are supported. Encrypted PKCS12 bags are supported. Encrypted PKCS8 private keys are supported. However, only password based security, and the same password for all operations, are supported.

The private keys may be RSA PKCS1 or DSA private keys encoded in the OpenSSL way.

PKCS12 file may contain many keys and/or certificates, and there is no way to identify which key/certificate pair you want. You should make sure the PKCS12 file only contain one key/certificate pair and/or one CRL.

It is believed that the limitations of this function is acceptable

for most usage, and that any more flexibility would introduce complexity that would make it harder to use this functionality at all.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_certificate_set_x509_simple_pkcs12_mem

[gnutls_005fcertificate_005fset_005fx509_005fsimple_005fpkcs12_005fmem](#)

Function:

int `gnutls_certificate_set_x509_simple_pkcs12_mem`

(`gnutls_certificate_credentials_t` res, const `gnutls_datum_t` * p12blob, `gnutls_x509_cert_fmt_t` type, const char * password)

`res` is a `gnutls_certificate_credentials_t` structure.

`p12blob`: the PKCS12 blob.

`type`: is PEM or DER of the `pkcs12file`.

`password`: optional password used to decrypt PKCS12 file, bags and keys.

This function sets a certificate/private key pair and/or a CRL in the `gnutls_certificate_credentials_t` structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

MAC: Encrypted PKCS12 files are supported. Encrypted PKCS12 bags are supported. Encrypted PKCS8 private keys are supported. However, only password based security, and the same password for all operations, are supported.

The private keys may be RSA PKCS1 or DSA private keys encoded in the OpenSSL way.

PKCS12 file may contain many keys and/or certificates, and there is no way to identify which key/certificate pair you want. You should make sure the PKCS12 file only contain one key/certificate pair and/or one CRL.

It is believed that the limitations of this function is acceptable for most usage, and that any more flexibility would introduce complexity that would make it harder to use this functionality at all.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

Since: 2.8.0

gnutls_certificate_set_x509_trust_file

Function: int `gnutls_certificate_set_x509_trust_file` (`gnutls_certificate_credentials_t` res, const char * cafile, `gnutls_x509 crt_fmt_t` type) `index-gnutls_005fcertificate_005fset_005fx509_005ftrust_005ffile-104`

`res`: is a `gnutls_certificate_credentials_t` structure.

`cafile`: is a file containing the list of trusted CAs (DER or PEM list)

`type`: is PEM or DER

This function adds the trusted CAs in order to verify client or server certificates. In case of a client this is not required to be called if the certificates are not verified using `gnutls_certificate_verify_peers2()`. This function may be called multiple times.

In case of a server the names of the CAs set here will be sent to the client if a certificate request is sent. This can be disabled using `gnutls_certificate_send_x509_rdn_sequence()`.

Returns: number of certificates processed, or a negative value on error.

gnutls_certificate_set_x509_trust_mem

Function: int `gnutls_certificate_set_x509_trust_mem` (`gnutls_certificate_credentials_t` res, const `gnutls_datum_t` * ca, `gnutls_x509 crt_fmt_t` type) `index-gnutls_005fcertificate_005fset_005fx509_005ftrust_005fmem-105`

`res`: is a `gnutls_certificate_credentials_t` structure.

`ca`: is a list of trusted CAs or a DER certificate

`type`: is DER or PEM

This function adds the trusted CAs in order to verify client or

server certificates. In case of a client this is not required to be called if the certificates are not verified using `gnutls_certificate_verify_peers2()`. This function may be called multiple times.

In case of a server the CAs set here will be sent to the client if a certificate request is sent. This can be disabled using `gnutls_certificate_send_x509_rdn_sequence()`.

Returns: the number of certificates processed or a negative value on error.

gnutls_certificate_set_x509_trust

[gnutls_005fcertificate_005fset_005fx509_005ftrust](#)

Function: int `gnutls_certificate_set_x509_trust` (`gnutls_certificate_credentials_t res,`

`gnutls_x509 crt_t * ca_list,` int `ca_list_size`)
[gnutls_005fcertificate_005fset_005fx509_005ftrust-106](#)

`res`: is a `gnutls_certificate_credentials_t` structure.

`ca_list`: is a list of trusted CAs

`ca_list_size`: holds the size of the CA list

This function adds the trusted CAs in order to verify client or server certificates. In case of a client this is not required to be called if the certificates are not verified using `gnutls_certificate_verify_peers2()`. This function may be called multiple times.

In case of a server the CAs set here will be sent to the client if a certificate request is sent. This can be disabled using `gnutls_certificate_send_x509_rdn_sequence()`.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

Since: 2.4.0

gnutls_certificate_type_get_id

[gnutls_005fcertificate_005ftype_005fget_005fid](#)

Function: `gnutls_certificate_type_t` `gnutls_certificate_type_get_id` (`const char *`

name

[index-gnutls_005fcertificate_005ftype_005fget_005fid-107](#)

`name`: is a certificate type name

The names are compared in a case insensitive way.

Returns: a `gnutls_certificate_type_t` for the specified in a string certificate type, or `GNUTLS_CERT_UNKNOWN` on error.

gnutls_certificate_type_get_name

[gnutls_005fcertificate_005ftype_005fget_005fname](#)

Function: const char * `gnutls_certificate_type_get_name` (`gnutls_certificate_type_t`

`type`) `type`: is a certificate type

Convert a `gnutls_certificate_type_t` type to a string.

Returns: a string that contains the name of the specified certificate type, or `NULL` in case of unknown types.

gnutls_certificate_type_get

[gnutls_005fcertificate_005ftype_005fget](#)

Function: `gnutls_certificate_type_t` `gnutls_certificate_type_get` (`gnutls_session_t`

`session`) `session`: is a `gnutls_session_t` structure.

The certificate type is by default X.509, unless it is negotiated as a TLS extension.

Returns: the currently used `gnutls_certificate_type_t` certificate type.

gnutls_certificate_type_list

[gnutls_005fcertificate_005ftype_005flist](#)

Function: const `gnutls_certificate_type_t` * `gnutls_certificate_type_list` (`void`

)

<p>Get a list of certificate types. Note that to be able to use OpenPGP certificates, you must link to libgnutls-extra and call <code>gnutls_global_init_extra()</code>.

<p>Returns: a zero-terminated list of <code>gnutls_certificate_type_t</code> integers indicating the available certificate types.

</p></blockquote></div>

gnutls_certificate_type_set_priority</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_type_set_priority (<var>gnutls_session_t session, const int * list</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>list</var>: is a 0 terminated list of gnutls_certificate_type_t elements.

<p>Sets the priority on the certificate types supported by gnutls.

Priority is higher for elements specified before others.

After specifying the types you want, you must append a 0.

Note that the certificate type priority is set on the client.

The server does not use the cert type priority except for disabling types that were not specified.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

gnutls_certificate_verify_peers2</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_verify_peers2 (<var>gnutls_session_t session, unsigned int * status</var>)<var></var>
<blockquote><p><var>session</var>: is a gnutls session

<p><var>status</var>: is the output of the verification

<p>This function will try to verify the peer's certificate and return its status (trusted, invalid etc.). The value of <code>status</code> should be one or more of the gnutls_certificate_status_t enumerated elements bitwise or'd. To avoid denial of service attacks some default upper limits regarding the certificate key size and chain size are set. To override them use <code>gnutls_certificate_set_verify_limits()</code>.

<p>Note that you must also check the peer's name in order to check if the verified certificate belongs to the actual peer.

<p>This function uses <code>gnutls_x509_cert_list_verify()</code> with the CAs in the credentials as trusted CAs.

<p>Note that some commonly used X.509 Certificate Authorities are still using Version 1 certificates. If you want to accept them, you need to call <code>gnutls_certificate_set_verify_flags()</code> with, e.g., <code>GNUTLS_VERIFY_ALLOW_X509_V1_CA_CRT</code> parameter.

<p>Returns: a negative error code on error and zero on success.</p></blockquote></div>

>gnutls_certificate_verify_peers</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_verify_peers (<var>gnutls_session_t session</var>)<var></var>
<blockquote><p><var>session</var>: is a gnutls session

<p>This function will try to verify the peer's certificate and return its status (trusted, invalid etc.). However you must also check the peer's name in order to check if the verified certificate belongs to the actual peer.

<p>This function uses <code>gnutls_x509_cert_list_verify()</code>.

<p>Returns: one or more of the <code>gnutls_certificate_status_t</code> enumerated elements bitwise or'd, or a negative value on error.

<p>Deprecated: Use <code>gnutls_certificate_verify_peers2()</code> instead.</p></blockquote></div>

>gnutls_check_version</h4>

<p>

<div class="defun">

— Function: const char * gnutls_check_version (<var>const char * req_version</var>)<var></var>
<blockquote><p><var>req_version</var>: version string to compare with, or <code>NULL</code>.

<p>Check GnuTLS Library version.

<p>See <code>GNUTLS_VERSION</code> for a suitable <code>req_version</code> string.

Return value: Check that the version of the library is at minimum the one given as a string in `req_version` and return the actual version string of the library; return `NULL` if the condition is not met. If `NULL` is passed to this function no check is done and only the version string is returned.

gnutls_cipher_get_id

— Function: `gnutls_cipher_algorithm_t gnutls_cipher_get_id` (`const char * name`)
: is a MAC algorithm name

The names are compared in a case insensitive way.

Returns: return a `gnutls_cipher_algorithm_t` value corresponding to the specified cipher, or `GNUTLS_CIPHER_UNKNOWN` on error.

gnutls_cipher_get_key_size

— Function: `size_t gnutls_cipher_get_key_size` (`gnutls_cipher_algorithm_t algorithm`)
: is an encryption algorithm

Get key size for cipher.

Returns: length (in bytes) of the given cipher's key size, or 0 if the given cipher is invalid.

gnutls_cipher_get_name

— Function: `const char * gnutls_cipher_get_name` (`gnutls_cipher_algorithm_t algorithm`)
: is an encryption algorithm

Convert a `gnutls_cipher_algorithm_t` type to a string.

Returns: a pointer to a string that contains the name of the specified cipher, or `NULL`.

gnutls_cipher_get

[gnutls_005fcipher_005fget](#)

Function:

`gnutls_cipher_algorithm_t` **gnutls_cipher_get** (`gnutls_session_t session`)
`session`: is a `gnutls_session_t` structure.

Get currently used cipher.

Returns: the currently used cipher, a `gnutls_cipher_algorithm_t` type.

gnutls_cipher_list

[gnutls_005fcipher_005flist](#)

Function:

`const gnutls_cipher_algorithm_t *` **gnutls_cipher_list** (`void`)
`name="index-gnutls_005fcipher_005flist-119"`

Get a list of supported cipher algorithms. Note that not necessarily all ciphers are supported as TLS cipher suites. For example, DES is not supported as a cipher suite, but is supported for other purposes (e.g., PKCS#8 or similar).

Returns: a zero-terminated list of `gnutls_cipher_algorithm_t` integers indicating the available ciphers.

gnutls_cipher_set_priority

[gnutls_005fcipher_005fset_005fpriority](#)

Function:

`int` **gnutls_cipher_set_priority** (`gnutls_session_t session, const int * list`)
`session`: is a `gnutls_session_t` structure.

`list`: is a 0 terminated list of `gnutls_cipher_algorithm_t` elements.

<p>Sets the priority on the ciphers supported by gnutls.
Priority is higher for elements specified before others.
After specifying the ciphers you want, you must append a 0.
Note that the priority is set on the client. The server does
not use the algorithm's priority except for disabling
algorithms that were not specified.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_cipher_suite_get_name</h4>

<p>

<div class="defun">

— Function: const char * gnutls_cipher_suite_get_name (<var>gnutls_kx_algorithm_t
kx_algorithm, gnutls_cipher_algorithm_t cipher_algorithm, gnutls_mac_algorithm_t mac_algorithm</var><var></var>

<blockquote><p><var>kx_algorithm</var>: is a Key exchange algorithm

<p><var>cipher_algorithm</var>: is a cipher algorithm

<p><var>mac_algorithm</var>: is a MAC algorithm

<p>Note that the full cipher suite name must be prepended by TLS or
SSL depending of the protocol in use.

<p>Returns: a string that contains the name of a TLS cipher suite,
specified by the given algorithms, or <code>NULL</code>.
</p></blockquote></div>

<h4 class="subheading">gnutls_cipher_suite_info</h4>

<p>

<div class="defun">

— Function: const char * gnutls_cipher_suite_info (<var>size_t idx, char * cs_id,
gnutls_kx_algorithm_t * kx, gnutls_cipher_algorithm_t * cipher, gnutls_mac_algorithm_t * mac, gnutls_protocol_t
* version</var><var></var>

<blockquote><p><var>idx</var>: index of cipher suite to get information about, starts on 0.

<p><var>cs_id</var>: output buffer with room for 2 bytes, indicating cipher suite value

<p><var>kx</var>: output variable indicating key exchange algorithm, or <code>NULL</code>.

<p><var>cipher</var>: output variable indicating cipher, or <code>NULL</code>.

<p><var>mac</var>: output variable indicating MAC algorithm, or <code>NULL</code>.

<p><var>version</var>: output variable indicating TLS protocol version, or <code>NULL</code>.

<p>Get information about supported cipher suites. Use the function iteratively to get information about all supported cipher suites. Call with idx=0 to get information about first cipher suite, then idx=1 and so on until the function returns NULL.

<p>Returns: the name of <code>idx</code> cipher suite, and set the information about the cipher suite in the output variables. If <code>idx</code> is out of bounds, <code>NULL</code> is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_compression_get_id</h4>

<p>

<div class="defun">

— Function: gnutls_compression_method_t gnutls_compression_get_id (<var>const char * name</var><var></var>

<blockquote><p><var>name</var>: is a compression method name

<p>The names are compared in a case insensitive way.

<p>Returns: an id of the specified in a string compression method, or <code>GNUTLS_COMP_UNKNOWN</code> on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_compression_get_name</h4>

<p>

<div class="defun">

— Function: const char * gnutls_compression_get_name (<var>gnutls_compression_method_t algorithm</var><var></var>

<blockquote><p><var>algorithm</var>: is a Compression algorithm

<p>Convert a <code>gnutls_compression_method_t</code> value to a string.

<p>Returns: a pointer to a string that contains the name of the specified compression algorithm, or <code>NULL</code>.

</p></blockquote></div>

<h4 class="subheading">gnutls_compression_get</h4>

<p>

<div class="defun">

— Function: `gnutls_compression_method_t` **gnutls_compression_get** (`gnutls_session_t session`)
`gnutls_compression_get` (`gnutls_session_t session`): is a `gnutls_session_t` structure.

Get currently used compression algorithm.

Returns: the currently used compression method, a `gnutls_compression_method_t` value.

gnutls_compression_list

`gnutls_compression_list`

— Function: `const gnutls_compression_method_t *` **gnutls_compression_list** (`gnutls_session_t session`)
`gnutls_compression_list` (`gnutls_session_t session`): is a `gnutls_session_t` structure.

Get a list of compression methods. Note that to be able to use LZO compression, you must link to libgnutls-extra and call `gnutls_global_init_extra`.

Returns: a zero-terminated list of `gnutls_compression_method_t` integers indicating the available compression methods.

gnutls_compression_set_priority

`gnutls_compression_set_priority`

— Function: `int` **gnutls_compression_set_priority** (`gnutls_session_t session`, `const int *list`)
`gnutls_compression_set_priority` (`gnutls_session_t session`, `const int *list`): is a `gnutls_session_t` structure.

`session`: is a `gnutls_session_t` structure.

`list`: is a 0 terminated list of `gnutls_compression_method_t` elements.

Sets the priority on the compression algorithms supported by gnutls.

Priority is higher for elements specified before others.

After specifying the algorithms you want, you must append a 0.

Note that the priority is set on the client. The server does

not use the algorithm's priority except for disabling

algorithms that were not specified.

TLS 1.0 does not define any compression algorithms except NULL. Other compression algorithms are to be considered as gnutls extensions.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_credentials_clear

[gnutls_credentials_clear](#)

Function:

void `gnutls_credentials_clear` (`gnutls_session_t session`)

`session`: is a `gnutls_session_t` structure.

Clears all the credentials previously set in this session.

gnutls_credentials_set

[gnutls_credentials_set](#)

Function:

int `gnutls_credentials_set` (`gnutls_session_t session`, `gnutls_credentials_type_t type`, void * `cred`)

`session`: is a `gnutls_session_t` structure.

`type`: is the type of the credentials

`cred`: is a pointer to a structure.

Sets the needed credentials for the specified type. Eg username, password - or public and private keys etc. The `cred` parameter is a structure that depends on the specified type and on the current session (client or server).

In order to minimize memory usage, and share credentials between several threads gnutls keeps a pointer to cred, and not the whole cred structure. Thus you will have to keep the structure allocated until you call `gnutls_deinit()`.

For `GNUTLS_CRD_ANON`, `cred` should be `gnutls_anon_client_credentials_t` in case of a client. In case of a server it should be `gnutls_anon_server_credentials_t`.

For `GNUTLS_CRD_SRP`, `cred` should be `gnutls_srp_client_credentials_t` in case of a client, and `gnutls_srp_server_credentials_t`, in case of a server.

For `GNUTLS_CRD_CERTIFICATE`, `cred` should be

`gnutls_certificate_credentials_t`.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_crypto_bigint_register2

[gnutls_005fcrypto_005fbigint_005fregister2](#)

Function: int `gnutls_crypto_bigint_register2` (`int` priority, `int` version,

`gnutls_crypto_bigint_st * s`)
[index-gnutls_005fcrypto_005fbigint_005fregister2-130](#)

`priority`: is the priority of the interface

`version`: should be set to `GNUTLS_CRYPT_API_VERSION`

`s`: is a structure holding new interface's data

This function will register an interface for gnutls to operate on big integers. Any interface registered will override the included interface. The interface with the lowest priority will be used by gnutls.

Note that the bigint interface must interoperate with the public key interface. Thus if this interface is updated the `gnutls_crypto_pk_register()` should also be used.

This function should be called before `gnutls_global_init()`.

For simplicity you can use the convenience `gnutls_crypto_bigint_register()` macro.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

Since: 2.6.0

gnutls_crypto_cipher_register2

[gnutls_005fcrypto_005fcipher_005fregister2](#)

Function: int `gnutls_crypto_cipher_register2` (`int` priority, `int` version,

`gnutls_crypto_cipher_st * s`)
[index-gnutls_005fcrypto_005fcipher_005fregister2-131](#)

`priority`: is the priority of the cipher interface

<p><var>version</var>: should be set to <code>GNUTLS_CRYPTO_API_VERSION</code>

<p><var>s</var>: is a structure holding new interface's data

<p>This function will register a cipher interface to be used by gnutls. Any interface registered will override the included engine and by convention kernel implemented interfaces should have priority of 90. The interface with the lowest priority will be used by gnutls.

<p>This function should be called before <code>gnutls_global_init()</code>.

<p>For simplicity you can use the convenience <code>gnutls_crypto_cipher_register()</code> macro.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.6.0

</p></blockquote></div>

gnutls_crypto_digest_register2</h4>

<p>

<div class="defun">

— Function: int gnutls_crypto_digest_register2 (<var>int priority, int version, gnutls_crypto_digest_st * s</var>)<var></var>

<blockquote><p><var>priority</var>: is the priority of the digest interface

<p><var>version</var>: should be set to <code>GNUTLS_CRYPTO_API_VERSION</code>

<p><var>s</var>: is a structure holding new interface's data

<p>This function will register a digest interface to be used by gnutls. Any interface registered will override the included engine and by convention kernel implemented interfaces should have priority of 90. The interface with the lowest priority will be used by gnutls.

<p>This function should be called before <code>gnutls_global_init()</code>.

<p>For simplicity you can use the convenience <code>gnutls_crypto_digest_register()</code> macro.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.6.0

</p></blockquote></div>

<h4 class="subheading">gnutls_crypto_mac_register2</h4>

<p>

<div class="defun">

— Function: int gnutls_crypto_mac_register2 (<var>int priority, int version, gnutls_crypto_mac_st *
s</var>)<var></var>

<blockquote><p><var>priority</var>: is the priority of the mac interface

<p><var>version</var>: should be set to <code>GNUTLS_CRYPTO_API_VERSION</code>

<p><var>s</var>: is a structure holding new interface's data

<p>This function will register a mac interface to be used by gnutls. Any interface registered will override the included engine and by convention kernel implemented interfaces should have priority of 90. The interface with the lowest priority will be used by gnutls.

<p>This function should be called before <code>gnutls_global_init()</code>.

<p>For simplicity you can use the convenience <code>gnutls_crypto_mac_register()</code> macro.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.6.0

</p></blockquote></div>

<h4 class="subheading">gnutls_crypto_pk_register2</h4>

<p>

<div class="defun">

— Function: int gnutls_crypto_pk_register2 (<var>int priority, int version, gnutls_crypto_pk_st *
s</var>)<var></var>

<blockquote><p><var>priority</var>: is the priority of the interface

<p><var>version</var>: should be set to <code>GNUTLS_CRYPTO_API_VERSION</code>

<p><var>s</var>: is a structure holding new interface's data

<p>This function will register an interface for gnutls to operate on public key operations. Any interface registered will override the included interface. The interface with the lowest

priority will be used by gnutls.

Note that the bigint interface must interoperate with the bigint interface. Thus if this interface is updated the `gnutls_crypto_bigint_register()` should also be used.

This function should be called before `gnutls_global_init()`.

For simplicity you can use the convenience `gnutls_crypto_pk_register()` macro.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

Since: 2.6.0

gnutls_crypto_rnd_register2

[gnutls_005fcrypto_005frnd_005fregister2](#)

Function: `int gnutls_crypto_rnd_register2` (`int priority`, `int version`, `gnutls_crypto_rnd_st *s`)

`priority`: is the priority of the generator

`version`: should be set to `GNUTLS_CRYPT_API_VERSION`

`s`: is a structure holding new generator's data

This function will register a random generator to be used by gnutls. Any generator registered will override the included generator and by convention kernel implemented generators have priority of 90. The generator with the lowest priority will be used by gnutls.

This function should be called before `gnutls_global_init()`.

For simplicity you can use the convenience `gnutls_crypto_rnd_register()` macro.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

Since: 2.6.0

gnutls_crypto_single_cipher_register2

[gnutls_005fcrypto_005fsingle_005fcipher_005fregister2](#)

<div class="defun">

— Function: int **gnutls_crypto_single_cipher_register2** (<var>gnutls_cipher_algorithm_t algorithm, int priority, int version, gnutls_crypto_single_cipher_st * s</var>)<var></var>
<blockquote><p><var>algorithm</var>: is the gnutls algorithm identifier

<p><var>priority</var>: is the priority of the algorithm

<p><var>version</var>: should be set to <code>GNUTLS_CRYPTO_API_VERSION</code>

<p><var>s</var>: is a structure holding new cipher's data

<p>This function will register a cipher algorithm to be used by gnutls. Any algorithm registered will override the included algorithms and by convention kernel implemented algorithms have priority of 90. The algorithm with the lowest priority will be used by gnutls.

<p>This function should be called before <code>gnutls_global_init()</code>.

<p>For simplicity you can use the convenience <code>gnutls_crypto_single_cipher_register()</code> macro.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.6.0

</p></blockquote></div>

gnutls_crypto_single_digest_register2

<p>

<div class="defun">

— Function: int **gnutls_crypto_single_digest_register2** (<var>gnutls_digest_algorithm_t algorithm, int priority, int version, gnutls_crypto_single_digest_st * s</var>)<var></var>
<blockquote><p><var>algorithm</var>: is the gnutls algorithm identifier

<p><var>priority</var>: is the priority of the algorithm

<p><var>version</var>: should be set to <code>GNUTLS_CRYPTO_API_VERSION</code>

<p><var>s</var>: is a structure holding new algorithms's data

<p>This function will register a digest (hash) algorithm to be used by gnutls. Any algorithm registered will override the included algorithms and by convention kernel implemented algorithms have

priority of 90. The algorithm with the lowest priority will be used by gnutls.

<p>This function should be called before <code>gnutls_global_init()</code>.

<p>For simplicity you can use the convenience <code>gnutls_crypto_single_digest_register()</code> macro.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.6.0

</p></blockquote></div>

gnutls_crypto_single_mac_register2</h4>

<p>

<div class="defun">

— Function: int gnutls_crypto_single_mac_register2 (<var>gnutls_mac_algorithm_t algorithm, int priority, int version, gnutls_crypto_single_mac_st * s</var>)<var></var>

<blockquote><p><var>algorithm</var>: is the gnutls algorithm identifier

<p><var>priority</var>: is the priority of the algorithm

<p><var>version</var>: should be set to <code>GNUTLS_CRYPT_API_VERSION</code>

<p><var>s</var>: is a structure holding new algorithms's data

<p>This function will register a MAC algorithm to be used by gnutls. Any algorithm registered will override the included algorithms and by convention kernel implemented algorithms have priority of 90. The algorithm with the lowest priority will be used by gnutls.

<p>This function should be called before <code>gnutls_global_init()</code>.

<p>For simplicity you can use the convenience <code>gnutls_crypto_single_mac_register()</code> macro.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.6.0

</p></blockquote></div>

gnutls_db_check_entry</h4>

<p>

<div class="defun">

— Function: int **gnutls_db_check_entry** (<var>gnutls_session_t session, gnutls_datum_t session_entry</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>session_entry</var>: is the session data (not key)

<p>Check if database entry has expired. This function is to be used when you want to clear unnecessary session which occupy space in your backend.

<p>Returns: Returns <code>GNUTLS_E_EXPIRED</code>, if the database entry has expired or 0 otherwise.

</p></blockquote></div>

<h4 class="subheading">gnutls_db_get_ptr</h4>

<p>

<div class="defun">

— Function: void * **gnutls_db_get_ptr** (<var>gnutls_session_t session</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Get db function pointer.

<p>Returns: the pointer that will be sent to db store, retrieve and delete functions, as the first argument.

</p></blockquote></div>

<h4 class="subheading">gnutls_db_remove_session</h4>

<p>

<div class="defun">

— Function: void **gnutls_db_remove_session** (<var>gnutls_session_t session</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>This function will remove the current session data from the session database. This will prevent future handshakes reusing these session data. This function should be called if a session was terminated abnormally, and before <code>gnutls_deinit()</code> is called.

<p>Normally <code>gnutls_deinit()</code> will remove abnormally terminated sessions.

</p></blockquote></div>

gnutls_db_set_cache_expiration

[gnutls_005fdb_005fset_005fcache_005fexpiration](#)

Function:

void **gnutls_db_set_cache_expiration** (`gnutls_session_t session`, int `seconds`)
`session`: is a `gnutls_session_t` structure.

`seconds`: is the number of seconds.

Set the expiration time for resumed sessions. The default is 3600 (one hour) at the time writing this.

gnutls_db_set_ptr

[gnutls_005fdb_005fset_005fptr](#)

Function:

void **gnutls_db_set_ptr** (`gnutls_session_t session`, void * `ptr`)
`session`: is a `gnutls_session_t` structure.

`ptr`: is the pointer

Sets the pointer that will be provided to db store, retrieve and delete functions, as the first argument.

gnutls_db_set_remove_function

[gnutls_005fdb_005fset_005fremove_005ffunction](#)

Function:

void **gnutls_db_set_remove_function** (`gnutls_session_t session`, `gnutls_db_remove_func rem_func`)
`session`: is a `gnutls_session_t` structure.

`rem_func`: is the function.

Sets the function that will be used to remove data from the resumed sessions database. This function must return 0 on success.

The first argument to `rem_func()` will be null unless `gnutls_db_set_ptr()` has been called.

gnutls_db_set_retrieve_function

[gnutls_005fdb_005fset_005fretrieve_005ffunction](#)

Function:

void **gnutls_db_set_retrieve_function** (`gnutls_session_t` session, `gnutls_db_retr_func` retr_func) [index-gnutls_005fdb_005fset_005fretrieve_005ffunction-145](#)

`session`: is a `gnutls_session_t` structure.

`retr_func`: is the function.

Sets the function that will be used to retrieve data from the resumed sessions database. This function must return a `gnutls_datum_t` containing the data on success, or a `gnutls_datum_t` containing null and 0 on failure.

The datum's data must be allocated using the function `gnutls_malloc`.

The first argument to `retr_func` will be null unless `gnutls_db_set_ptr` has been called.

gnutls_db_set_store_function

[gnutls_005fdb_005fset_005fstore_005ffunction](#)

Function:

void **gnutls_db_set_store_function** (`gnutls_session_t` session, `gnutls_db_store_func` store_func) [index-gnutls_005fdb_005fset_005fstore_005ffunction-146](#)

`session`: is a `gnutls_session_t` structure.

`store_func`: is the function

Sets the function that will be used to store data from the resumed sessions database. This function must return 0 on success.

The first argument to `store_func` will be null unless `gnutls_db_set_ptr` has been called.

gnutls_deinit

[gnutls_005fdeinit](#)

```
<div class="defun">
&mdash; Function: void <b>gnutls_deinit</b> (<var>gnutls_session_t session</var>)<var><a name="index-
gnutls_005fdeinit-147"></a></var><br>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.
```

```
<p>This function clears all buffers associated with the <code>session</code>.
This function will also remove session data from the session
database if the session was terminated abnormally.
</p></blockquote></div>
```

gnutls_dh_get_group

```
<p><a name="gnutls_005fdh_005fget_005fgroup"></a>
```

```
<div class="defun">
&mdash; Function: int <b>gnutls_dh_get_group</b> (<var>gnutls_session_t session, gnutls_datum_t * raw_gen,
gnutls_datum_t * raw_prime</var>)<var><a name="index-gnutls_005fdh_005fget_005fgroup-
148"></a></var><br>
<blockquote><p><var>session</var>: is a gnutls session
```

```
<p><var>raw_gen</var>: will hold the generator.
```

```
<p><var>raw_prime</var>: will hold the prime.
```

```
<p>This function will return the group parameters used in the last
Diffie-Hellman authentication with the peer. These are the prime
and the generator used. This function should be used for both
anonymous and ephemeral Diffie-Hellman. The output parameters must
be freed with <code>gnutls_free()</code>.
```

```
<p><strong>Returns:</strong> On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise
an error code is returned.
</p></blockquote></div>
```

gnutls_dh_get_peers_public_bits

```
<p><a name="gnutls_005fdh_005fget_005fpeers_005fpublic_005fbits"></a>
```

```
<div class="defun">
&mdash; Function: int <b>gnutls_dh_get_peers_public_bits</b> (<var>gnutls_session_t session</var>)<var><a
name="index-gnutls_005fdh_005fget_005fpeers_005fpublic_005fbits-149"></a></var><br>
<blockquote><p><var>session</var>: is a gnutls session
```

```
<p>Get the Diffie-Hellman public key bit size. Can be used for both
anonymous and ephemeral Diffie-Hellman.
```

```
<p><strong>Returns:</strong> the public key bit size used in the last Diffie-Hellman
authentication with the peer, or a negative value in case of error.
```

</p></blockquote></div>

<h4 class="subheading">gnutls_dh_get_prime_bits</h4>

<p>

<div class="defun">

— Function: int gnutls_dh_get_prime_bits (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p>This function will return the bits of the prime used in the last Diffie-Hellman authentication with the peer. Should be used for both anonymous and ephemeral Diffie-Hellman. Note that some ciphers, like RSA and DSA without DHE, does not use a Diffie-Hellman exchange, and then this function will return 0.

<p>Returns: The Diffie-Hellman bit strength is returned, or 0 if no Diffie-Hellman exchange was done, or a negative error code on failure.

</p></blockquote></div>

<h4 class="subheading">gnutls_dh_get_pubkey</h4>

<p>

<div class="defun">

— Function: int gnutls_dh_get_pubkey (<var>gnutls_session_t session, gnutls_datum_t * raw_key</var>)<var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p><var>raw_key</var>: will hold the public key.

<p>This function will return the peer's public key used in the last Diffie-Hellman authentication. This function should be used for both anonymous and ephemeral Diffie-Hellman. The output parameters must be freed with <code>gnutls_free()</code>.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_dh_get_secret_bits</h4>

<p>

<div class="defun">

— Function: int gnutls_dh_get_secret_bits (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p>This function will return the bits used in the last Diffie-Hellman authentication with the peer. Should be used for both anonymous and ephemeral Diffie-Hellman.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_dh_params_cpy</h4>

<p>

<div class="defun">

— Function: int gnutls_dh_params_cpy (<var>gnutls_dh_params_t dst, gnutls_dh_params_t src</var><var></var>

<blockquote><p><var>dst</var>: Is the destination structure, which should be initialized.

<p><var>src</var>: Is the source structure

<p>This function will copy the DH parameters structure from source to destination.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_dh_params_deinit</h4>

<p>

<div class="defun">

— Function: void gnutls_dh_params_deinit (<var>gnutls_dh_params_t dh_params</var><var></var>

<blockquote><p><var>dh_params</var>: Is a structure that holds the prime numbers

<p>This function will deinitialize the DH parameters structure.

</p></blockquote></div>

<h4 class="subheading">gnutls_dh_params_export_pkcs3</h4>

<p>

<div class="defun">

— Function: int gnutls_dh_params_export_pkcs3 (<var>gnutls_dh_params_t params, gnutls_x509_crt_fmt_t format, unsigned char * params_data, size_t * params_data_size</var><var></var>

<blockquote><p><var>params</var>: Holds the DH parameters

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>params_data</var>: will contain a PKCS3 DHParams structure PEM or DER encoded

<p><var>params_data_size</var>: holds the size of params_data (and will be replaced by the actual size of parameters)

<p>This function will export the given dh parameters to a PKCS3 DHParams structure. This is the format generated by "openssl dhparam" tool. If the buffer provided is not long enough to hold the output, then GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN DH PARAMETERS".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_dh_params_export_raw (<var>gnutls_dh_params_t params, gnutls_datum_t * prime, gnutls_datum_t * generator, unsigned int * bits</var>)<var></var>
 <blockquote><p><var>params</var>: Holds the DH parameters <p><var>prime</var>: will hold the new prime <p><var>generator</var>: will hold the new generator <p><var>bits</var>: if non null will hold is the prime's number of bits <p>This function will export the pair of prime and generator for use in the Diffie-Hellman key exchange. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned. </p></blockquote></div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 425

<p>

<div class="defun">

— Function: int gnutls_dh_params_generate2 (<var>gnutls_dh_params_t params, unsigned int bits</var>)<var></var>

<blockquote><p><var>params</var>: Is the structure that the DH parameters will be stored

<p><var>bits</var>: is the prime's number of bits

<p>This function will generate a new pair of prime and generator for use in the Diffie-Hellman key exchange. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum. This function is normally slow.

<p>Note that the bits value should be one of 768, 1024, 2048, 3072 or 4096. Also note that the DH parameters are only useful to servers. Since clients use the parameters sent by the server, it's of no use to call this in client side.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

gnutls_dh_params_import_pkcs3</h4>

<p>

<div class="defun">

— Function: int gnutls_dh_params_import_pkcs3 (<var>gnutls_dh_params_t params, const gnutls_datum_t * pkcs3_params, gnutls_x509_crt_fmt_t format</var>)<var></var>

<blockquote><p><var>params</var>: A structure where the parameters will be copied to

<p><var>pkcs3_params</var>: should contain a PKCS3 DHParams structure PEM or DER encoded

<p><var>format</var>: the format of params. PEM or DER.

<p>This function will extract the DHParams found in a PKCS3 formatted structure. This is the format generated by "openssl dhparam" tool.

<p>If the structure is PEM encoded, it should have a header of "BEGIN DH PARAMETERS".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

gnutls_dh_params_import_raw

[gnutls_005fdh_005fparams_005fimport_005fraw](#)

Function:

int **gnutls_dh_params_import_raw** (`gnutls_dh_params_t` dh_params, const `gnutls_datum_t` * prime, const `gnutls_datum_t` * generator)

`dh_params`: Is a structure that will hold the prime numbers

`prime`: holds the new prime

`generator`: holds the new generator

This function will replace the pair of prime and generator for use in the Diffie-Hellman key exchange. The new parameters should be stored in the appropriate `gnutls_datum`.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_dh_params_init

[gnutls_005fdh_005fparams_005finit](#)

Function:

int **gnutls_dh_params_init** (`gnutls_dh_params_t` * dh_params)

`dh_params`: Is a structure that will hold the prime numbers

This function will initialize the DH parameters structure.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_dh_set_prime_bits

[gnutls_005fdh_005fset_005fprime_005fbits](#)

Function:

void **gnutls_dh_set_prime_bits** (`gnutls_session_t` session, unsigned int bits)

`session`: is a `gnutls_session_t` structure.

`bits`: is the number of bits

<p>This function sets the number of bits, for use in an Diffie-Hellman key exchange. This is used both in DH ephemeral and DH anonymous cipher suites. This will set the minimum size of the prime that will be used for the handshake.

<p>In the client side it sets the minimum accepted number of bits. If a server sends a prime with less bits than that <code>GNUTLS_E_DH_PRIME_UNACCEPTABLE</code> will be returned by the handshake.

<p>This function has no effect in server side.
</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_error_is_fatal (<var>int error</var>)<var></var>
 <blockquote><p><var>error</var>: is a GnuTLS error code, a negative value

<p>If a GnuTLS function returns a negative value you may feed that value to this function to see if the error condition is fatal.

<p>Note that you may want to check the error code manually, since some non-fatal errors to the protocol may be fatal for you program.

<p>This function is only useful if you are dealing with errors from the record layer or the handshake layer.

<p>Returns: 1 if the error code is fatal, for positive <code>error</code> values, 0 is returned. For unknown <code>error</code> values, -1 is returned.
</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_error_to_alert (<var>int err, int * level</var>)<var></var>
 <blockquote><p><var>err</var>: is a negative integer

<p><var>level</var>: the alert level will be stored there

<p>Get an alert depending on the error code returned by a gnutls function. All alerts sent by this function should be considered fatal. The only exception is when <code>err</code> is <code>GNUTLS_E_REHANDSHAKE</code>,</p>

where a warning alert should be sent to the peer indicating that no renegotiation will be performed.

If there is no mapping to a valid alert the alert to indicate internal error is returned.

Returns: the alert code to use for a particular error code.

gnutls_ext_register

[gnutls_005fext_005fregister](#)

Function:

int **gnutls_ext_register** (int type, const char * name, gnutls_ext_parse_type_t parse_type, gnutls_ext_recv_func_t recv_func, gnutls_ext_send_func_t send_func)

type: the 16-bit integer referring to the extension type

name: human printable name of the extension used for debugging

parse_type: either `GNUTLS_EXT_TLS` or `GNUTLS_EXT_APPLICATION`.

recv_func: a function to receive extension data

send_func: a function to send extension data

This function is used to register a new TLS extension handler.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

Since: 2.6.0

gnutls_fingerprint

[gnutls_005ffingerprint](#)

Function:

int **gnutls_fingerprint** (gnutls_digest_algorithm_t algo, const gnutls_datum_t * data, void * result, size_t * result_size)

algo: is a digest algorithm

data: is the data

result: is the place where the result will be copied (may be null).

`result_size`: should hold the size of the result. The actual size of the returned result will also be copied there.

This function will calculate a fingerprint (actually a hash), of the given data. The result is not printable data. You should convert it to hex, or to something else printable.

This is the usual way to calculate a fingerprint of an X.509 DER encoded certificate. Note however that the fingerprint of an OpenPGP is not just a hash and cannot be calculated with this function.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_free

[gnutls_005ffree](#)

Function:

`void gnutls_free(void * ptr)`

This function will free data pointed by ptr.

The deallocation function used is the one set by `gnutls_global_set_mem_functions()`.

gnutls_global_deinit

[gnutls_005fglobal_005fdeinit](#)

Function:

`void gnutls_global_deinit(void)`

This function deinitializes the global data, that were initialized using `gnutls_global_init()`.

Note! This function is not thread safe. See the discussion for `gnutls_global_init()` for more information.

gnutls_global_init

[gnutls_005fglobal_005finit](#)

Function:

– Function: `int gnutls_global_init` (`void`)
[index-gnutls_005fglobal_005finit-168](#)

This function initializes the global data to defaults. Every gnutls application has a global data which holds common parameters shared by gnutls session structures. You should call `gnutls_global_deinit` when gnutls usage is no longer needed

Note that this function will also initialize libcrypto, if it has not been initialized before. Thus if you want to manually initialize libcrypto you must do it before calling this function. This is useful in cases you want to disable libcrypto's internal lockings etc.

This function increment a global counter, so that `gnutls_global_deinit` only releases resources when it has been called as many times as `gnutls_global_init`. This is useful when GnuTLS is used by more than one library in an application. This function can be called many times, but will only do something the first time.

Note! This function is not thread safe. If two threads call this function simultaneously, they can cause a race between checking the global counter and incrementing it, causing both threads to execute the library initialization code. That would lead to a memory leak. To handle this, your application could invoke this function after acquiring a thread mutex. To ignore the potential memory leak is also an option.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_global_set_log_function

[index-gnutls_005fglobal_005fset_005flog_005ffunction](#)

– Function: `void gnutls_global_set_log_function` (`gnutls_log_func log_func`)
[index-gnutls_005fglobal_005fset_005flog_005ffunction-169](#)

`log_func`: it's a log function

This is the function where you set the logging function gnutls is going to use. This function only accepts a character array. Normally you may not use this function since it is only used for debugging purposes.

`gnutls_log_func` is of the form,

```
void (*gnutls_log_func)( int level, const char*);
```

```
</p></blockquote></div>
```

gnutls_global_set_log_level

```
<p><a name="gnutls_005fglobal_005fset_005flog_005flevel"></a>
```

```
<div class="defun">
```

```
&mdash; Function: void <b>gnutls_global_set_log_level</b> (<var>int level</var><var><a name="index-gnutls_005fglobal_005fset_005flog_005flevel-170"></a></var><br>
```

```
<blockquote><p><var>level</var>: it's an integer from 0 to 9.
```

This is the function that allows you to set the log level. The level is an integer between 0 and 9. Higher values mean more verbosity. The default value is 0. Larger values should only be used with care, since they may reveal sensitive information.

Use a log level over 10 to enable all debugging options.

gnutls_global_set_mem_functions

```
<p><a name="gnutls_005fglobal_005fset_005fmem_005ffunctions"></a>
```

```
<div class="defun">
```

```
&mdash; Function: void <b>gnutls_global_set_mem_functions</b> (<var>gnutls_alloc_function alloc_func, gnutls_alloc_function secure_alloc_func, gnutls_is_secure_function is_secure_func, gnutls_realloc_function realloc_func, gnutls_free_function free_func</var><var><a name="index-gnutls_005fglobal_005fset_005fmem_005ffunctions-171"></a></var><br>
```

```
<blockquote><p><var>alloc_func</var>: it's the default memory allocation function. Like malloc().
```

<var>secure_alloc_func</var>: This is the memory allocation function that will be used for sensitive data.

<var>is_secure_func</var>: a function that returns 0 if the memory given is not secure. May be NULL.

<var>realloc_func</var>: A realloc function

<var>free_func</var>: The function that frees allocated data. Must accept a NULL pointer.

This is the function were you set the memory allocation functions gnutls is going to use. By default the libc's allocation functions (`malloc()`, `free()`), are used by gnutls, to allocate both sensitive and not sensitive data. This function is provided to set the memory allocation functions to something other than the defaults (ie the gcrypt allocation functions).

This function must be called before `gnutls_global_init()` is called. This function is not thread safe.

</p></blockquote></div>

<h4 class="subheading">gnutls_handshake_get_last_in</h4>

<p>

<div class="defun">

— Function: `gnutls_handshake_description_t` **gnutls_handshake_get_last_in** (`gnutls_session_t session`)<var></var>
<blockquote><p><var>session</var>: is a `gnutls_session_t` structure.

<p>This function is only useful to check where the last performed handshake failed. If the previous handshake succeed or was not performed at all then no meaningful value will be returned.

<p>Check `gnutls_handshake_description_t` in `gnutls.h` for the available handshake descriptions.

<p>Returns: the last handshake message type received, a `gnutls_handshake_description_t`.

</p></blockquote></div>

<h4 class="subheading">gnutls_handshake_get_last_out</h4>

<p>

<div class="defun">

— Function: `gnutls_handshake_description_t` **gnutls_handshake_get_last_out** (`gnutls_session_t session`)<var></var>
<blockquote><p><var>session</var>: is a `gnutls_session_t` structure.

<p>This function is only useful to check where the last performed handshake failed. If the previous handshake succeed or was not performed at all then no meaningful value will be returned.

<p>Check `gnutls_handshake_description_t` in `gnutls.h` for the available handshake descriptions.

<p>Returns: the last handshake message type sent, a `gnutls_handshake_description_t`.

</p></blockquote></div>

<h4 class="subheading">gnutls_handshake_set_max_packet_length</h4>

<p>

<div class="defun">

— Function: void `gnutls_handshake_set_max_packet_length` (`gnutls_session_t session`, `size_t max`)
`gnutls_handshake_set_max_packet_length` is a `gnutls_session_t` structure.

`max`: is the maximum number.

This function will set the maximum size of all handshake messages. Handshakes over this size are rejected with `GNUTLS_E_HANDSHAKE_TOO_LARGE` error code. The default value is 48kb which is typically large enough. Set this to 0 if you do not want to set an upper limit.

The reason for restricting the handshake message sizes are to limit Denial of Service attacks.

gnutls_handshake_set_post_client_hello_function

`gnutls_handshake_set_post_client_hello_function`

`gnutls_handshake_set_post_client_hello_function`

— Function: void `gnutls_handshake_set_post_client_hello_function` (`gnutls_session_t session`, `gnutls_handshake_post_client_hello_func func`)
`gnutls_handshake_set_post_client_hello_function` is a `gnutls_session_t` structure.

`func`: is the function to be called

This function will set a callback to be called after the client hello has been received (callback valid in server side only). This allows the server to adjust settings based on received extensions.

Those settings could be ciphersuites, requesting certificate, or anything else except for version negotiation (this is done before the hello message is parsed).

This callback must return 0 on success or a gnutls error code to terminate the handshake.

Warning: You should not use this function to terminate the handshake based on client input unless you know what you are doing. Before the handshake is finished there is no way to know if there is a man-in-the-middle attack being performed.

gnutls_handshake_set_private_extensions

<p>

<div class="defun">

— Function: void gnutls_handshake_set_private_extensions (<var>gnutls_session_t session, int allow</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>allow</var>: is an integer (0 or 1)

<p>This function will enable or disable the use of private cipher suites (the ones that start with 0xFF). By default or if <code>allow</code> is 0 then these cipher suites will not be advertised nor used.

<p>Unless this function is called with the option to allow (1), then no compression algorithms, like LZO. That is because these algorithms are not yet defined in any RFC or even internet draft.

<p>Enabling the private ciphersuites when talking to other than gnutls servers and clients may cause interoperability problems.

</p></blockquote></div>

<h4 class="subheading">gnutls_handshake</h4>

<p>

<div class="defun">

— Function: int gnutls_handshake (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>This function does the handshake of the TLS/SSL protocol, and initializes the TLS connection.

<p>This function will fail if any problem is encountered, and will return a negative error code. In case of a client, if the client has asked to resume a session, but the server couldn't, then a full handshake will be performed.

<p>The non-fatal errors such as <code>GNUTLS_E_AGAIN</code> and <code>GNUTLS_E_INTERRUPTED</code> interrupt the handshake procedure, which should be later be resumed. Call this function again, until it returns 0; cf. <code>gnutls_record_get_direction()</code> and <code>gnutls_error_is_fatal()</code>.

<p>If this function is called by a server after a rehandshake request then <code>GNUTLS_E_GOT_APPLICATION_DATA</code> or <code>GNUTLS_E_WARNING_ALERT_RECEIVED</code> may be returned. Note that these

are non fatal errors, only in the specific case of a rehandshake.
Their meaning is that the client rejected the rehandshake request.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_hex2bin (<var>const char * hex_data, size_t hex_size, char * bin_data, size_t * bin_size</var><var></var>
 <blockquote><p><var>hex_data</var>: string with data in hex format <p><var>hex_size</var>: size of hex data <p><var>bin_data</var>: output array with binary data <p><var>bin_size</var>: when calling *<code>bin_size</code> should hold size of <code>bin_data</code>, on return will hold actual size of <code>bin_data</code>. <p>Convert a buffer with hex data to binary data. <p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error. <p>Since: 2.4.0 </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_hex_decode (<var>const gnutls_datum_t * hex_data, char * result, size_t * result_size</var><var></var>
 <blockquote><p><var>hex_data</var>: contain the encoded data <p><var>result</var>: the place where decoded data will be copied <p><var>result_size</var>: holds the size of the result <p>This function will decode the given encoded data, using the hex encoding used by PSK password files. <p>Note that hex_data should be null terminated. <p>Returns: <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if the buffer given is --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 436

not

long enough, or 0 on success.

gnutls_hex_encode

– Function: int **gnutls_hex_encode** (`const gnutls_datum_t * data, char * result, size_t * result_size`)

`data`: contain the raw data

`result`: the place where hex data will be copied

`result_size`: holds the size of the result

This function will convert the given data to printable data, using the hex encoding, as used in the PSK password files.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the buffer given is not

long enough, or 0 on success.

gnutls_init

– Function: int **gnutls_init** (`gnutls_session_t * session, gnutls_connection_end_t con_end`)

`session`: is a pointer to a `gnutls_session_t` structure.

`con_end`: indicate if this session is to be used for server or client.

This function initializes the current session to null. Every session must be initialized before use, so internal structures can be allocated. This function allocates structures which can only be free'd by calling `gnutls_deinit()`. Returns zero on success.

`con_end` can be one of `GNUTLS_CLIENT` and `GNUTLS_SERVER`.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_kx_get_id

<p>

<div class="defun">

— Function: gnutls_kx_algorithm_t gnutls_kx_get_id (<var>const char * name</var>)<var></var>

<blockquote><p><var>name</var>: is a KX name

<p>Convert a string to a <code>gnutls_kx_algorithm_t</code> value. The names are compared in a case insensitive way.

<p>Returns: an id of the specified KX algorithm, or <code>GNUTLS_KX_UNKNOWN</code> on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_kx_get_name</h4>

<p>

<div class="defun">

— Function: const char * gnutls_kx_get_name (<var>gnutls_kx_algorithm_t algorithm</var>)<var></var>

<blockquote><p><var>algorithm</var>: is a key exchange algorithm

<p>Convert a <code>gnutls_kx_algorithm_t</code> value to a string.

<p>Returns: a pointer to a string that contains the name of the specified key exchange algorithm, or <code>NULL</code>.

</p></blockquote></div>

<h4 class="subheading">gnutls_kx_get</h4>

<p>

<div class="defun">

— Function: gnutls_kx_algorithm_t gnutls_kx_get (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Get currently used key exchange algorithm.

<p>Returns: the key exchange algorithm used in the last handshake, a <code>gnutls_kx_algorithm_t</code> value.

</p></blockquote></div>

<h4 class="subheading">gnutls_kx_list</h4>

<p>

<div class="defun">

— Function: const gnutls_kx_algorithm_t * gnutls_kx_list (<var>void</var>)<var></var>

<blockquote>

<p>Get a list of supported key exchange algorithms.

<p>Returns: a zero-terminated list of <code>gnutls_kx_algorithm_t</code> integers indicating the available key exchange algorithms.

</p></blockquote></div>

<h4 class="subheading">gnutls_kx_set_priority</h4>

<p>

<div class="defun">

— Function: int gnutls_kx_set_priority (<var>gnutls_session_t session, const int * list</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>list</var>: is a 0 terminated list of gnutls_kx_algorithm_t elements.

<p>Sets the priority on the key exchange algorithms supported by gnutls.

Priority is higher for elements specified before others.

After specifying the algorithms you want, you must append a 0.

Note that the priority is set on the client. The server does not use the algorithm's priority except for disabling algorithms that were not specified.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_mac_get_id</h4>

<p>

<div class="defun">

— Function: gnutls_mac_algorithm_t gnutls_mac_get_id (<var>const char * name</var>)<var></var>

<blockquote><p><var>name</var>: is a MAC algorithm name

<p>Convert a string to a <code>gnutls_mac_algorithm_t</code> value. The names are compared in a case insensitive way.

<p>Returns: a <code>gnutls_mac_algorithm_t</code> id of the specified MAC algorithm string, or <code>GNUTLS_MAC_UNKNOWN</code> on failures.

</p></blockquote></div>

gnutls_mac_get_key_size

[gnutls_005fmac_005fget_005fkey_005fsize](#)

Function:

`size_t gnutls_mac_get_key_size` (`gnutls_mac_algorithm_t algorithm`): is an encryption algorithm

Get size of MAC key.

Returns: length (in bytes) of the given MAC key size, or 0 if the given MAC algorithm is invalid.

gnutls_mac_get_name

[gnutls_005fmac_005fget_005fname](#)

Function:

`const char * gnutls_mac_get_name` (`gnutls_mac_algorithm_t algorithm`): is a MAC algorithm

Convert a `gnutls_mac_algorithm_t` value to a string.

Returns: a string that contains the name of the specified MAC algorithm, or `NULL`.

gnutls_mac_get

[gnutls_005fmac_005fget](#)

Function:

`gnutls_mac_algorithm_t gnutls_mac_get` (`gnutls_session_t session`): is a `gnutls_session_t` structure.

Get currently used MAC algorithm.

Returns: the currently used mac algorithm, a `gnutls_mac_algorithm_t` value.

gnutls_mac_list

[gnutls_005fmac_005flist](#)

Function: `const gnutls_mac_algorithm_t *` `gnutls_mac_list` (`void`)

`gnutls_mac_list` is a zero-terminated list of `gnutls_mac_algorithm_t` elements.

Blockquote:

Get a list of hash algorithms for use as MACs. Note that not necessarily all MACs are supported in TLS cipher suites. For example, MD2 is not supported as a cipher suite, but is supported for other purposes (e.g., X.509 signature verification or similar).

Returns: Return a zero-terminated list of `gnutls_mac_algorithm_t` integers indicating the available MACs.

Blockquote:

gnutls_mac_set_priority

[gnutls_005fmac_005fset_005fpriority](#)

Function: `int` `gnutls_mac_set_priority` (`gnutls_session_t` session, `int *` list)

`gnutls_mac_set_priority` sets the priority of the MAC algorithms supported by gnutls. Priority is higher for elements specified before others.

`session`: is a `gnutls_session_t` structure.

`list`: is a 0 terminated list of `gnutls_mac_algorithm_t` elements.

Sets the priority on the mac algorithms supported by gnutls. Priority is higher for elements specified before others. After specifying the algorithms you want, you must append a 0. Note that the priority is set on the client. The server does not use the algorithm's priority except for disabling algorithms that were not specified.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

Blockquote:

gnutls_malloc

[gnutls_005fmalloc](#)

Function: `void *` `gnutls_malloc` (`size_t` s)

`gnutls_malloc` will allocate 's' bytes data, and return a pointer to memory. This function is supposed to be used by callbacks.

Blockquote:

This function will allocate 's' bytes data, and return a pointer to memory. This function is supposed to be used by callbacks.

<p>The allocation function used is the one set by <code>gnutls_global_set_mem_functions()</code>.</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_send_cert</h4>

<p>

<div class="defun">

— Function: void gnutls_openpgp_send_cert (<var>gnutls_session_t session, gnutls_openpgp_cert_status_t status</var>)<var></var>

<blockquote><p><var>session</var>: is a pointer to a <code>gnutls_session_t</code> structure.

<p><var>status</var>: is one of GNUTLS_OPENPGP_CERT, or GNUTLS_OPENPGP_CERT_FINGERPRINT

<p>This function will order gnutls to send the key fingerprint instead of the key in the initial handshake procedure. This should be used with care and only when there is indication or knowledge that the server can obtain the client's key.

</p></blockquote></div>

<h4 class="subheading">gnutls_oprfi_enable_client</h4>

<p>

<div class="defun">

— Function: void gnutls_oprfi_enable_client (<var>gnutls_session_t session, size_t len, unsigned char * data</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>len</var>: length of Opaque PRF data to use in client.

<p><var>data</var>: Opaque PRF data to use in client.

<p>Request that the client should attempt to negotiate the Opaque PRF Input TLS extension, using the given data as the client's Opaque PRF input.

<p>The data is copied into the session context after this call, so you may de-allocate it immediately after calling this function.

</p></blockquote></div>

<h4 class="subheading">gnutls_oprfi_enable_server</h4>

<p>

<div class="defun">

— Function: void gnutls_oprfi_enable_server (<var>gnutls_session_t session,

`gnutls_oprfi_callback_func cb, void * userdata`</var><var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>cb</var>: function pointer to Opaque PRF extension server callback.

<p><var>userdata</var>: hook passed to callback function for passing application state.

<p>Request that the server should attempt to accept the Opaque PRF Input TLS extension. If the client requests the extension, the provided callback <code>cb</code> will be invoked. The callback must have the following prototype:

```
<p>int callback (gnutls_session_t session, void *userdata,
size_t oprfi_len, const unsigned char *in_oprfi,
unsigned char *out_oprfi);
```

<p>The callback can inspect the client-provided data in the input parameters, and specify its own opaque prf input data in the output variable. The function must return 0 on success, otherwise the handshake will be aborted.

</p></blockquote></div>

gnutls_pem_base64_decode_alloc

<p>

<div class="defun">

— Function: int gnutls_pem_base64_decode_alloc (<var>const char * header, const gnutls_datum_t * b64_data, gnutls_datum_t * result</var><var></var>

<blockquote><p><var>header</var>: The PEM header (eg. CERTIFICATE)

<p><var>b64_data</var>: contains the encoded data

<p><var>result</var>: the place where decoded data lie

<p>This function will decode the given encoded data. The decoded data will be allocated, and stored into result. If the header given is non null this function will search for "——BEGIN header" and decode only this part. Otherwise it will decode the first PEM packet found.

<p>You should use <code>gnutls_free()</code> to free the returned data.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise an error code is returned.

</p></blockquote></div>

gnutls_pem_base64_decode

[gnutls_005fpem_005fbase64_005fdecode](#)

`<div class="defun">`

`— Function: int gnutls_pem_base64_decode (const char * header, const gnutls_datum_t * b64_data, unsigned char * result, size_t * result_size)
index-gnutls_005fpem_005fbase64_005fdecode-198`

`<blockquote><p><code>header</code>`: A null terminated string with the PEM header (eg. CERTIFICATE)

`<p><code>b64_data</code>`: contain the encoded data

`<p><code>result</code>`: the place where decoded data will be copied

`<p><code>result_size</code>`: holds the size of the result

`<p>`This function will decode the given encoded data. If the header given is non null this function will search for "-----BEGIN header" and decode only this part. Otherwise it will decode the first PEM packet found.

`<p>Returns:` On success `GNUTLS_E_SUCCESS` (0) is returned, `GNUTLS_E_SHORT_MEMORY_BUFFER` is returned if the buffer given is not long enough, or 0 on success.

`</p></blockquote></div>`

gnutls_pem_base64_encode_alloc

[gnutls_005fpem_005fbase64_005fencode_005falloc](#)

`<div class="defun">`

`— Function: int gnutls_pem_base64_encode_alloc (const char * msg, const gnutls_datum_t * data, gnutls_datum_t * result)
index-gnutls_005fpem_005fbase64_005fencode_005falloc-199`

`<blockquote><p><code>msg</code>`: is a message to be put in the encoded header

`<p><code>data</code>`: contains the raw data

`<p><code>result</code>`: will hold the newly allocated encoded data

`<p>`This function will convert the given data to printable data, using the base64 encoding. This is the encoding used in PEM messages. This function will allocate the required memory to hold the encoded data.

`<p>`You should use `gnutls_free()` to free the returned data.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_pem_base64_encode

Function: int `gnutls_pem_base64_encode` (`const char * msg, const gnutls_datum_t * data, char * result, size_t * result_size`)
`index-gnutls_005fpem_005fbase64_005fencode-200`

`msg`: is a message to be put in the header

`data`: contain the raw data

`result`: the place where base64 data will be copied

`result_size`: holds the size of the result

This function will convert the given data to printable data, using the base64 encoding. This is the encoding used in PEM messages.

The output string will be null terminated, although the size will not include the terminating null.

Returns: On success `GNUTLS_E_SUCCESS` (0) is returned, `GNUTLS_E_SHORT_MEMORY_BUFFER` is returned if the buffer given is not long enough, or 0 on success.

gnutls_perror

Function: void `gnutls_perror` (`int error`)
`index-gnutls_005fperror-201`

`error`: is a GnuTLS error code, a negative value

This function is like `perror()`. The only difference is that it accepts an error number returned by a gnutls function.

gnutls_pk_algorithm_get_name

<div class="defun">
— Function: const char * gnutls_pk_algorithm_get_name (<var>gnutls_pk_algorithm_t
algorithm</var>)<var></var>

<blockquote><p><var>algorithm</var>: is a pk algorithm

<p>Convert a <code>gnutls_pk_algorithm_t</code> value to a string.

<p>Returns: a string that contains the name of the specified public
key algorithm, or <code>NULL</code>.

</p></blockquote></div>

<h4 class="subheading">gnutls_pk_get_id</h4>

<p>

<div class="defun">
— Function: gnutls_pk_algorithm_t gnutls_pk_get_id (<var>const char * name</var>)<var></var>

<blockquote><p><var>name</var>: is a string containing a public key algorithm name.

<p>Convert a string to a <code>gnutls_pk_algorithm_t</code> value. The names are
compared in a case insensitive way. For example,
gnutls_pk_get_id("RSA") will return <code>GNUTLS_PK_RSA</code>.

<p>Returns: a <code>gnutls_pk_algorithm_t</code> id of the specified public key
algorithm string, or <code>GNUTLS_PK_UNKNOWN</code> on failures.

<p>Since: 2.6.0
</p></blockquote></div>

<h4 class="subheading">gnutls_pk_get_name</h4>

<p>

<div class="defun">
— Function: const char * gnutls_pk_get_name (<var>gnutls_pk_algorithm_t
algorithm</var>)<var></var>

<blockquote><p><var>algorithm</var>: is a public key algorithm

<p>Convert a <code>gnutls_pk_algorithm_t</code> value to a string.

<p>Returns: a pointer to a string that contains the name of the
specified public key algorithm, or <code>NULL</code>.

<p>Since: 2.6.0
</p></blockquote></div>

<h4 class="subheading">gnutls_pk_list</h4>

<p>

<div class="defun">

— Function: const gnutls_pk_algorithm_t * gnutls_pk_list (<var> void</var>)<var></var>

<blockquote>

<p>Get a list of supported public key algorithms.

<p>Returns: a zero-terminated list of <code>gnutls_pk_algorithm_t</code> integers indicating the available ciphers.

<p>Since: 2.6.0

</p></blockquote></div>

<h4 class="subheading">gnutls_prf_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_prf_raw (<var>gnutls_session_t session, size_t label_size, const char * label, size_t seed_size, const char * seed, size_t outsize, char * out</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>label_size</var>: length of the <code>label</code> variable.

<p><var>label</var>: label used in PRF computation, typically a short string.

<p><var>seed_size</var>: length of the <code>seed</code> variable.

<p><var>seed</var>: optional extra data to seed the PRF with.

<p><var>outsize</var>: size of pre-allocated output buffer to hold the output.

<p><var>out</var>: pre-allocate buffer to hold the generated data.

<p>Apply the TLS Pseudo-Random-Function (PRF) using the master secret on some data.

<p>The <code>label</code> variable usually contain a string denoting the purpose for the generated data. The <code>seed</code> usually contain data such as the client and server random, perhaps together with some additional data that is added to guarantee uniqueness of the output for a particular purpose.

<p>Because the output is not guaranteed to be unique for a particular session unless <code>seed</code> include the client random and server random

fields (the PRF would output the same data on another connection resumed from the first one), it is not recommended to use this function directly. The `gnutls_prf()` function seed the PRF with the client and server random fields directly, and is recommended if you want to generate pseudo random data unique for each session.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_prf

[gnutls_005fprf](#)

Function:

`int gnutls_prf(gnutls_session_t session, size_t label_size, const char * label, int server_random_first, size_t extra_size, const char * extra, size_t outsize, char * out)`

`session`: is a `gnutls_session_t` structure.

`label_size`: length of the `label` variable.

`label`: label used in PRF computation, typically a short string.

`server_random_first`: non-0 if server random field should be first in seed

`extra_size`: length of the `extra` variable.

`extra`: optional extra data to seed the PRF with.

`outsize`: size of pre-allocated output buffer to hold the output.

`out`: pre-allocate buffer to hold the generated data.

Apply the TLS Pseudo-Random-Function (PRF) using the master secret on some data, seeded with the client and server random fields.

The `label` variable usually contain a string denoting the purpose for the generated data. The `server_random_first` indicate whether the client random field or the server random field should be first in the seed. Non-0 indicate that the server random field is first, 0 that the client random field is first.

The `extra` variable can be used to add more data to the seed, after the random variables. It can be used to tie make sure the generated output is strongly connected to some additional data (e.g., a string used in user authentication).

The output is placed in `*OUT`, which must be pre-allocated.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_priority_deinit

[gnutls_005fpriority_005fdeinit](#)

Function:

void `gnutls_priority_deinit` (`gnutls_priority_t` priority_cache) `index-gnutls_005fpriority_005fdeinit-208`

`priority_cache`: is a `gnutls_priority_t` structure.

Deinitializes the priority cache.

gnutls_priority_init

[gnutls_005fpriority_005finit](#)

Function:

int `gnutls_priority_init` (`gnutls_priority_t` * priority_cache, const char * priorities, const char ** err_pos) `index-gnutls_005fpriority_005finit-209`

`priority_cache`: is a `gnutls_priority_t` structure.

`priorities`: is a string describing priorities

`err_pos`: In case of an error this will have the position in the string the error occurred

Sets priorities for the ciphers, key exchange methods, macs and compression methods. This is to avoid using the `gnutls_*_priority()` functions.

The `priorities` option allows you to specify a semi-colon separated list of the cipher priorities to enable.

Unless the first keyword is "NONE" the defaults (in preference order) are for TLS protocols TLS1.1, TLS1.0, SSL3.0; for compression NULL; for certificate types X.509, OpenPGP.

For key exchange algorithms when in NORMAL or SECURE levels the perfect forward secrecy algorithms take precedence of the other protocols. In all cases all the supported key exchange algorithms are enabled (except for the RSA-EXPORT which is only enabled in EXPORT level).

Note that although one can select very long key sizes (such as 256 bits) for symmetric algorithms, to actually increase security the public key

algorithms have to use longer key sizes as well.

<p>For all the current available algorithms and protocols use "gnutls-cli -l" to get a listing.

<p>Common keywords: Some keywords are defined to provide quick access to common preferences.

<p>"PERFORMANCE" means all the "secure" ciphersuites are enabled, limited to 128 bit ciphers and sorted by terms of speed performance.

<p>"NORMAL" means all "secure" ciphersuites. The 256-bit ciphers are included as a fallback only. The ciphers are sorted by security margin.

<p>"SECURE128" means all "secure" ciphersuites with ciphers up to 128 bits, sorted by security margin.

<p>"SECURE256" means all "secure" ciphersuites including the 256 bit ciphers, sorted by security margin.

<p>"EXPORT" means all ciphersuites are enabled, including the low-security 40 bit ciphers.

<p>"NONE" means nothing is enabled. This disables even protocols and compression methods.

<p>Special keywords: "!" or "-" appended with an algorithm will remove this algorithm.

<p>"+" appended with an algorithm will add this algorithm.

<p>"%COMPAT" will enable compatibility features for a server.

<p>"%SSL3_RECORD_VERSION" will use SSL3.0 record version in client hello.

<p>"%VERIFY_ALLOW_SIGN_RSA_MD5" will allow RSA-MD5 signatures in certificate chains.

<p>"%VERIFY_ALLOW_X509_V1_CA_CRT" will allow V1 CAs in chains.

<p>Namespace concern: To avoid collisions in order to specify a compression algorithm in this string you have to prefix it with "COMP-", protocol versions with "VERS-" and certificate types with "CTYPE-". All other algorithms don't need a prefix.

<p>Examples: "NORMAL:!AES-128-CBC" means normal ciphers except for AES-128.

<p>"EXPORT:!VERS-TLS1.0:+COMP-DEFLATE" means that export ciphers are enabled, TLS 1.0 is disabled, and libz compression enabled.

<p>"NONE:+VERS-TLS1.0:+AES-128-CBC:+RSA:+SHA1:+COMP-NULL", "NORMAL", "%COMPAT".

<p>Returns: On syntax error <code>GNUTLS_E_INVALID_REQUEST</code> is returned, <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_priority_set_direct (<var>gnutls_session_t session, const char * priorities, const char ** err_pos</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure. <p><var>priorities</var>: is a string describing priorities <p><var>err_pos</var>: In case of an error this will have the position in the string the error occurred <p>Sets the priorities to use on the ciphers, key exchange methods, macs and compression methods. This function avoids keeping a priority cache and is used to directly set string priorities to a TLS session. For documentation check the <code>gnutls_priority_init()</code>. <p>Returns: On syntax error <code>GNUTLS_E_INVALID_REQUEST</code> is returned, <code>GNUTLS_E_SUCCESS</code> on success, or an error code. </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_priority_set (<var>gnutls_session_t session, gnutls_priority_t priority</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure. <p><var>priority</var>: is a <code>gnutls_priority_t</code> structure. <p>Sets the priorities to use on the ciphers, key exchange methods, macs and compression methods. <p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code. </p></blockquote></div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 451

<h4 class="subheading">gnutls_protocol_get_id</h4>

<p>

<div class="defun">

— Function: gnutls_protocol_t gnutls_protocol_get_id (<var>const char * name</var>)<var></var>

<blockquote><p><var>name</var>: is a protocol name

<p>The names are compared in a case insensitive way.

<p>Returns: an id of the specified protocol, or
<code>GNUTLS_VERSION_UNKNOWN</code> on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_protocol_get_name</h4>

<p>

<div class="defun">

— Function: const char * gnutls_protocol_get_name (<var>gnutls_protocol_t
version</var>)<var></var>

<blockquote><p><var>version</var>: is a (gnutls) version number

<p>Convert a <code>gnutls_protocol_t</code> value to a string.

<p>Returns: a string that contains the name of the specified TLS
version (e.g., "TLS1.0"), or <code>NULL</code>.

</p></blockquote></div>

<h4 class="subheading">gnutls_protocol_get_version</h4>

<p>

<div class="defun">

— Function: gnutls_protocol_t gnutls_protocol_get_version (<var>gnutls_session_t
session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Get TLS version, a <code>gnutls_protocol_t</code> value.

<p>Returns: the version of the currently used protocol.

</p></blockquote></div>

<h4 class="subheading">gnutls_protocol_list</h4>

<p>

<div class="defun">

— Function: const gnutls_protocol_t * **gnutls_protocol_list** (<var> void</var>)<var></var>

<blockquote>

<p>Get a list of supported protocols, e.g. SSL 3.0, TLS 1.0 etc.

<p>Returns: a zero-terminated list of <code>gnutls_protocol_t</code> integers indicating the available protocols.

</p></blockquote></div>

<h4 class="subheading">gnutls_protocol_set_priority</h4>

<p>

<div class="defun">

— Function: int **gnutls_protocol_set_priority** (<var>gnutls_session_t session, const int * list</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>list</var>: is a 0 terminated list of gnutls_protocol_t elements.

<p>Sets the priority on the protocol versions supported by gnutls.

This function actually enables or disables protocols. Newer protocol versions always have highest priority.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_psk_allocate_client_credentials</h4>

<p>

<div class="defun">

— Function: int **gnutls_psk_allocate_client_credentials** (<var>gnutls_psk_client_credentials_t * sc</var>)<var></var>

<blockquote><p><var>sc</var>: is a pointer to a <code>gnutls_psk_server_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_psk_allocate_server_credentials</h4>

<p>

<div class="defun">
— Function: int gnutls_psk_allocate_server_credentials (<var>gnutls_psk_server_credentials_t *
sc</var>)<var></var>

<blockquote><p><var>sc</var>: is a pointer to a <code>gnutls_psk_server_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_psk_client_get_hint</h4>

<p>

<div class="defun">
— Function: const char * gnutls_psk_client_get_hint (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p>The PSK identity hint may give the client help in deciding which username to use. This should only be called in case of PSK authentication and in case of a client.

<p>Returns: the identity hint of the peer, or <code>NULL</code> in case of an error.

<p>Since: 2.4.0
</p></blockquote></div>

<h4 class="subheading">gnutls_psk_free_client_credentials</h4>

<p>

<div class="defun">
— Function: void gnutls_psk_free_client_credentials (<var>gnutls_psk_client_credentials_t
sc</var>)<var></var>

<blockquote><p><var>sc</var>: is a <code>gnutls_psk_client_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.
</p></blockquote></div>

<h4 class="subheading">gnutls_psk_free_server_credentials</h4>

<p>

<div class="defun">
— Function: void gnutls_psk_free_server_credentials (<var>gnutls_psk_server_credentials_t

`sc`: is a `gnutls_psk_server_credentials_t` structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_psk_netconf_derive_key

`gnutls_psk_netconf_derive_key`

Function:

`int gnutls_psk_netconf_derive_key` (`const char * password, const char * psk_identity, const char * psk_identity_hint, gnutls_datum_t * output_key`)

`password`: zero terminated string containing password.

`psk_identity`: zero terminated string with PSK identity.

`psk_identity_hint`: zero terminated string with PSK identity hint.

`output_key`: output variable, contains newly allocated *data pointer.

This function will derive a PSK key from a password, for use with the Netconf protocol.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

Since: 2.4.0

gnutls_psk_server_get_username

`gnutls_psk_server_get_username`

Function:

`const char * gnutls_psk_server_get_username` (`gnutls_session_t session`)

This should only be called in case of PSK authentication and in case of a server.

Returns: the username of the peer, or `NULL` in case of an error.

gnutls_psk_set_client_credentials_function

<p>

<div class="defun">

— Function: void gnutls_psk_set_client_credentials_function (<var>gnutls_psk_client_credentials_t cred, gnutls_psk_client_credentials_function * func</var>)<var></var>
<blockquote><p><var>cred</var>: is a <code>gnutls_psk_server_credentials_t</code> structure.

<p><var>func</var>: is the callback function

<p>This function can be used to set a callback to retrieve the username and password for client PSK authentication.

The callback's function form is:

```
int (*callback)(gnutls_session_t, char** username,
gnutls_datum_t* key);
```

<p>The <code>username</code> and <code>key</code>->data must be allocated using <code>gnutls_malloc()</code>.

<code>username</code> should be ASCII strings or UTF-8 strings prepared using the "SASLprep" profile of "stringprep".

<p>The callback function will be called once per handshake.

<p>The callback function should return 0 on success.

-1 indicates an error.

</p></blockquote></div>

<h4 class="subheading">gnutls_psk_set_client_credentials</h4>

<p>

<div class="defun">

— Function: int gnutls_psk_set_client_credentials (<var>gnutls_psk_client_credentials_t res, const char * username, const gnutls_datum_t * key, gnutls_psk_key_flags flags</var>)<var></var>
<blockquote><p><var>res</var>: is a <code>gnutls_psk_client_credentials_t</code> structure.

<p><var>username</var>: is the user's zero-terminated userid

<p><var>key</var>: is the user's key

<p>This function sets the username and password, in a gnutls_psk_client_credentials_t structure. Those will be used in PSK authentication. <code>username</code> should be an ASCII string or UTF-8 strings prepared using the "SASLprep" profile of "stringprep". The key can be either in raw byte format or in Hex (not with the '0x' prefix).

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_psk_set_params_function</h4>

<p>

<div class="defun">

— Function: void gnutls_psk_set_params_function (<var>gnutls_psk_server_credentials_t res, gnutls_params_function * func</var>)<var></var>

<blockquote><p><var>res</var>: is a gnutls_psk_server_credentials_t structure

<p><var>func</var>: is the function to be called

<p>This function will set a callback in order for the server to get the Diffie-Hellman or RSA parameters for psk authentication. The callback should return zero on success.

</p></blockquote></div>

<h4 class="subheading">gnutls_psk_set_server_credentials_file</h4>

<p>

<div class="defun">

— Function: int gnutls_psk_set_server_credentials_file (<var>gnutls_psk_server_credentials_t res, const char * password_file</var>)<var></var>

<blockquote><p><var>res</var>: is a <code>gnutls_psk_server_credentials_t</code> structure.

<p><var>password_file</var>: is the PSK password file (passwd.psk)

<p>This function sets the password file, in a <code>gnutls_psk_server_credentials_t</code> structure. This password file holds usernames and keys and will be used for PSK authentication.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_psk_set_server_credentials_function</h4>

<p>

<div class="defun">

— Function: void gnutls_psk_set_server_credentials_function (<var>gnutls_psk_server_credentials_t cred, gnutls_psk_server_credentials_function * func</var>)<var></var>

<blockquote><p><var>cred</var>: is a <code>gnutls_psk_server_credentials_t</code> structure.

<p><var>func</var>: is the callback function

<p>This function can be used to set a callback to retrieve the user's PSK credentials.

The callback's function form is:

```
int (*callback)(gnutls_session_t, const char* username,  
gnutls_datum_t* key);
```

<p><code>username</code> contains the actual username.

The <code>key</code> must be filled in using the <code>gnutls_malloc()</code>.

<p>In case the callback returned a negative number then gnutls will assume that the username does not exist.

<p>The callback function will only be called once per handshake. The callback function should return 0 on success, while -1 indicates an error.

</p></blockquote></div>

<h4 class="subheading">gnutls_psk_set_server_credentials_hint</h4>

<p>

<div class="defun">

— Function: int gnutls_psk_set_server_credentials_hint (<var>gnutls_psk_server_credentials_t res, const char * hint</var>)<var></var>

<blockquote><p><var>res</var>: is a <code>gnutls_psk_server_credentials_t</code> structure.

<p><var>hint</var>: is the PSK identity hint string

<p>This function sets the identity hint, in a <code>gnutls_psk_server_credentials_t</code> structure. This hint is sent to the client to help it chose a good PSK credential (i.e., username and password).

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_psk_set_server_dh_params</h4>

<p>

<div class="defun">

— Function: void gnutls_psk_set_server_dh_params (<var>gnutls_psk_server_credentials_t res, gnutls_dh_params_t dh_params</var>)<var><a name="index-

`gnutls_005fpsk_005fset_005fserver_005fdh_005fparams-230`></var>

<blockquote><p><var>res</var>: is a `gnutls_psk_server_credentials_t` structure

<p><var>dh_params</var>: is a structure that holds Diffie-Hellman parameters.

<p>This function will set the Diffie-Hellman parameters for an anonymous server to use. These parameters will be used in Diffie-Hellman exchange with PSK cipher suites.

</p></blockquote></div>

gnutls_psk_set_server_params_function

<p>

<div class="defun">

— Function: void gnutls_psk_set_server_params_function (<var>gnutls_psk_server_credentials_t res, gnutls_params_function * func</var>)<var></var>

<blockquote><p><var>res</var>: is a `gnutls_certificate_credentials_t` structure

<p><var>func</var>: is the function to be called

<p>This function will set a callback in order for the server to get the Diffie-Hellman parameters for PSK authentication. The callback should return zero on success.

</p></blockquote></div>

gnutls_record_check_pending

<p>

<div class="defun">

— Function: size_t gnutls_record_check_pending (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a `gnutls_session_t` structure.

<p>This function checks if there are any data to receive in the gnutls buffers.

<p>Notice that you may also use `select()` to check for data in a TCP connection, instead of this function. GnuTLS leaves some data in the tcp buffer in order for select to work.

<p>Returns: the size of that data or 0.

</p></blockquote></div>

gnutls_record_disable_padding

<p>

<div class="defun">

— Function: void gnutls_record_disable_padding (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Used to disabled padding in TLS 1.0 and above. Normally you do not need to use this function, but there are buggy clients that complain if a server pads the encrypted data. This of course will disable protection against statistical attacks on the data.

<p>Normally only servers that require maximum compatibility with everything out there, need to call this function.

</p></blockquote></div>

<h4 class="subheading">gnutls_record_get_direction</h4>

<p>

<div class="defun">

— Function: int gnutls_record_get_direction (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>This function provides information about the internals of the record protocol and is only useful if a prior gnutls function call (e.g. <code>gnutls_handshake()</code>) was interrupted for some reason, that is, if a function returned <code>GNUTLS_E_INTERRUPTED</code> or <code>GNUTLS_E_AGAIN</code>. In such a case, you might want to call <code>select()</code> or <code>poll()</code> before calling the interrupted gnutls function again. To tell you whether a file descriptor should be selected for either reading or writing, <code>gnutls_record_get_direction()</code> returns 0 if the interrupted function was trying to read data, and 1 if it was trying to write data.

<p>Returns: 0 if trying to read data, 1 if trying to write data.
</p></blockquote></div>

<h4 class="subheading">gnutls_record_get_max_size</h4>

<p>

<div class="defun">

— Function: size_t gnutls_record_get_max_size (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Get the record size. The maximum record size is negotiated by the client after the first handshake message.

<p>Returns: The maximum record packet size in this connection.</p></blockquote></div>

<p> <div class="defun"> — Function: ssize_t gnutls_record_recv (<var>gnutls_session_t session, void * data, size_t sizeofdata</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure. <p><var>data</var>: the buffer that the data will be read into <p><var>sizeofdata</var>: the number of requested bytes <p>This function has the similar semantics with <code>recv()</code>. The only difference is that it accepts a GnuTLS session, and uses different error codes. <p>In the special case that a server requests a renegotiation, the client may receive an error code of <code>GNUTLS_E_REHANDSHAKE</code>. This message may be simply ignored, replied with an alert <code>GNUTLS_A_NO_RENEGOTIATION</code>, or replied with a new handshake, depending on the client's will. <p>If <code>EINTR</code> is returned by the internal push function (the default is <code>recv()</code>) then <code>GNUTLS_E_INTERRUPTED</code> will be returned. If <code>GNUTLS_E_INTERRUPTED</code> or <code>GNUTLS_E_AGAIN</code> is returned, you must call this function again to get the data. See also <code>gnutls_record_get_direction()</code>. <p>A server may also receive <code>GNUTLS_E_REHANDSHAKE</code> when a client has initiated a handshake. In that case the server can only initiate a handshake or terminate the connection. <p>Returns: the number of bytes received and zero on EOF. A negative error code is returned in case of an error. The number of bytes received might be less than <code>sizeofdata</code>. </p></blockquote></div> <p> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 461

<div class="defun">

— Function: ssize_t **gnutls_record_send** (<var>gnutls_session_t session, const void * data, size_t sizeofdata</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>data</var>: contains the data to send

<p><var>sizeofdata</var>: is the length of the data

<p>This function has the similar semantics with <code>send()</code>. The only difference is that it accepts a GnuTLS session, and uses different error codes.

<p>Note that if the send buffer is full, <code>send()</code> will block this function. See the <code>send()</code> documentation for full information. You can replace the default push function by using <code>gnutls_transport_set_ptr2()</code> with a call to <code>send()</code> with a MSG_DONTWAIT flag if blocking is a problem.

<p>If the EINTR is returned by the internal push function (the default is <code>send()</code> } then <code>GNUTLS_E_INTERRUPTED</code> will be returned. If <code>GNUTLS_E_INTERRUPTED</code> or <code>GNUTLS_E_AGAIN</code> is returned, you must call this function again, with the same parameters; alternatively you could provide a <code>NULL</code> pointer for data, and 0 for size. cf. <code>gnutls_record_get_direction()</code>.

<p>Returns: the number of bytes sent, or a negative error code. The number of bytes sent might be less than <code>sizeofdata</code>. The maximum number of bytes this function can send in a single call depends on the negotiated maximum record size.

</p></blockquote></div>

gnutls_record_set_max_size

<p>

<div class="defun">

— Function: ssize_t **gnutls_record_set_max_size** (<var>gnutls_session_t session, size_t size</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>size</var>: is the new size

<p>This function sets the maximum record packet size in this connection. This property can only be set to clients. The server may choose not to accept the requested size.

<p>Acceptable values are 512(=2⁹), 1024(=2¹⁰), 2048(=2¹¹) and

4096(=2¹²). The requested record size does get in effect immediately only while sending data. The receive part will take effect after a successful handshake.

<p>This function uses a TLS extension called 'max record size'. Not all TLS implementations use or even understand this extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_rehandshake</h4>

<p>

<div class="defun">

— Function: int gnutls_rehandshake (<var>gnutls_session_t session</var><var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>This function will renegotiate security parameters with the client. This should only be called in case of a server.

<p>This message informs the peer that we want to renegotiate parameters (perform a handshake).

<p>If this function succeeds (returns 0), you must call the <code>gnutls_handshake()</code> function in order to negotiate the new parameters.

<p>If the client does not wish to renegotiate parameters he will should with an alert message, thus the return code will be <code>GNUTLS_E_WARNING_ALERT_RECEIVED</code> and the alert will be <code>GNUTLS_A_NO_RENEGOTIATION</code>. A client may also choose to ignore this message.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

</p></blockquote></div>

<h4 class="subheading">gnutls_rsa_export_get_modulus_bits</h4>

<p>

<div class="defun">

— Function: int gnutls_rsa_export_get_modulus_bits (<var>gnutls_session_t session</var><var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p>Get the export RSA parameter's modulus size.

<p>Returns: the bits used in the last RSA-EXPORT key exchange with the peer, or a negative value in case of error.

</p></blockquote></div>

<h4 class="subheading">gnutls_rsa_export_get_pubkey</h4>

<p>

<div class="defun">

— Function: int gnutls_rsa_export_get_pubkey (<var>gnutls_session_t session, gnutls_datum_t * exponent, gnutls_datum_t * modulus</var><var></var>

<blockquote><p><var>session</var>: is a gnutls session

<p><var>exponent</var>: will hold the exponent.

<p><var>modulus</var>: will hold the modulus.

<p>This function will return the peer's public key exponent and modulus used in the last RSA-EXPORT authentication. The output parameters must be freed with <code>gnutls_free()</code>.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_rsa_params_cpy</h4>

<p>

<div class="defun">

— Function: int gnutls_rsa_params_cpy (<var>gnutls_rsa_params_t dst, gnutls_rsa_params_t src</var><var></var>

<blockquote><p><var>dst</var>: Is the destination structure, which should be initialized.

<p><var>src</var>: Is the source structure

<p>This function will copy the RSA parameters structure from source to destination.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or a negative error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_rsa_params_deinit</h4>

<p>

<div class="defun">
— Function: void gnutls_rsa_params_deinit (<var>gnutls_rsa_params_t rsa_params</var>)<var></var>

<blockquote><p><var>rsa_params</var>: Is a structure that holds the parameters

<p>This function will deinitialize the RSA parameters structure.
</p></blockquote></div>

>gnutls_rsa_params_export_pkcs1</h4>

<p>

<div class="defun">
— Function: int gnutls_rsa_params_export_pkcs1 (<var>gnutls_rsa_params_t params,
gnutls_x509_cert_fmt_t format, unsigned char * params_data, size_t * params_data_size</var>)<var></var>

<blockquote><p><var>params</var>: Holds the RSA parameters

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>params_data</var>: will contain a PKCS1 RSAPublicKey structure PEM or DER encoded

<p><var>params_data_size</var>: holds the size of params_data (and will be replaced by the actual size of parameters)

<p>This function will export the given RSA parameters to a PKCS1 RSAPublicKey structure. If the buffer provided is not long enough to hold the output, then GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN RSA PRIVATE KEY".

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an negative error code.
</p></blockquote></div>

>gnutls_rsa_params_export_raw</h4>

<p>

<div class="defun">
— Function: int gnutls_rsa_params_export_raw (<var>gnutls_rsa_params_t params, gnutls_datum_t * m, gnutls_datum_t * e, gnutls_datum_t * d, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * u, unsigned int * bits</var>)<var></var>

<blockquote><p><var>params</var>: a structure that holds the rsa parameters

<p><var>m</var>: will hold the modulus

<p><var>e</var>: will hold the public exponent

<p><var>d</var>: will hold the private exponent

<p><var>p</var>: will hold the first prime (p)

<p><var>q</var>: will hold the second prime (q)

<p><var>u</var>: will hold the coefficient

<p><var>bits</var>: if non null will hold the prime's number of bits

<p>This function will export the RSA parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an negative error code.</p></blockquote></div>

<h4 class="subheading">gnutls_rsa_params_generate2</h4>

<p>

<div class="defun">

— Function: int gnutls_rsa_params_generate2 (<var>gnutls_rsa_params_t params, unsigned int bits</var><var></var>

<blockquote><p><var>params</var>: The structure where the parameters will be stored

<p><var>bits</var>: is the prime's number of bits

<p>This function will generate new temporary RSA parameters for use in RSA-EXPORT ciphersuites. This function is normally slow.

<p>Note that if the parameters are to be used in export cipher suites the bits value should be 512 or less.

Also note that the generation of new RSA parameters is only useful to servers. Clients use the parameters sent by the server, thus it's no use calling this in client side.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an negative error code.</p></blockquote></div>

<h4 class="subheading">gnutls_rsa_params_import_pkcs1</h4>

<p>

<div class="defun">

— Function: int gnutls_rsa_params_import_pkcs1 (<var>gnutls_rsa_params_t params, const

`gnutls_datum_t * pkcs1_params, gnutls_x509_crt_fmt_t format` (index-gnutls_005frsa_005fparams_005fimport_005fpkcs1-247)

`params`: A structure where the parameters will be copied to

`pkcs1_params`: should contain a PKCS1 RSAPublicKey structure PEM or DER encoded

`format`: the format of params. PEM or DER.

This function will extract the RSAPublicKey found in a PKCS1 formatted structure.

If the structure is PEM encoded, it should have a header of "BEGIN RSA PRIVATE KEY".

Returns: `GNUTLS_E_SUCCESS` on success, or a negative error code.

gnutls_rsa_params_import_raw

(index-gnutls_005frsa_005fparams_005fimport_005fraw)

`—` Function: `int gnutls_rsa_params_import_raw` (`gnutls_rsa_params_t rsa_params, const gnutls_datum_t * m, const gnutls_datum_t * e, const gnutls_datum_t * d, const gnutls_datum_t * p, const gnutls_datum_t * q, const gnutls_datum_t * u` (index-gnutls_005frsa_005fparams_005fimport_005fraw-248))

`rsa_params`: Is a structure will hold the parameters

`m`: holds the modulus

`e`: holds the public exponent

`d`: holds the private exponent

`p`: holds the first prime (p)

`q`: holds the second prime (q)

`u`: holds the coefficient

This function will replace the parameters in the given structure. The new parameters should be stored in the appropriate `gnutls_datum`.

Returns: `GNUTLS_E_SUCCESS` on success, or a negative error code.

gnutls_rsa_params_init

<p>

<div class="defun">

— Function: int gnutls_rsa_params_init (<var>gnutls_rsa_params_t * rsa_params</var>)<var></var>

<blockquote><p><var>rsa_params</var>: Is a structure that will hold the parameters

<p>This function will initialize the temporary RSA parameters structure.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or a negative error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_server_name_get</h4>

<p>

<div class="defun">

— Function: int gnutls_server_name_get (<var>gnutls_session_t session, void * data, size_t * data_length, unsigned int * type, unsigned int indx</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>data</var>: will hold the data

<p><var>data_length</var>: will hold the data length. Must hold the maximum size of data.

<p><var>type</var>: will hold the server name indicator type

<p><var>indx</var>: is the index of the server_name

<p>This function will allow you to get the name indication (if any), a client has sent. The name indication may be any of the enumeration gnutls_server_name_type_t.

<p>If <code>type</code> is GNUTLS_NAME_DNS, then this function is to be used by servers that support virtual hosting, and the data will be a null terminated UTF-8 string.

<p>If <code>data</code> has not enough size to hold the server name GNUTLS_E_SHORT_MEMORY_BUFFER is returned, and <code>data_length</code> will hold the required size.

<p><code>index</code> is used to retrieve more than one server names (if sent by the client). The first server name has an index of 0, the second 1 and so on. If no name with the given index exists GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE is returned.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_server_name_set

Function: `int gnutls_server_name_set` (`gnutls_session_t session`, `gnutls_server_name_type_t type`, `const void * name`, `size_t name_length`)

`session`: is a `gnutls_session_t` structure.

`type`: specifies the indicator type

`name`: is a string that contains the server name.

`name_length`: holds the length of name

This function is to be used by clients that want to inform (via a TLS extension mechanism) the server of the name they connected to. This should be used by clients that connect to servers that do virtual hosting.

The value of `name` depends on the `ind` type. In case of `GNUTLS_NAME_DNS`, an ASCII or UTF-8 null terminated string, without the trailing dot, is expected. IPv4 or IPv6 addresses are not permitted.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_session_enable_compatibility_mode

Function: `void gnutls_session_enable_compatibility_mode` (`gnutls_session_t session`)

`session`: is a `gnutls_session_t` structure.

This function can be used to disable certain (security) features in TLS in order to maintain maximum compatibility with buggy clients. It is equivalent to calling:

`gnutls_record_disable_padding()`

Normally only servers that require maximum compatibility with everything out there, need to call this function.

gnutls_session_get_client_random

[gnutls_005fsession_005fget_005fclient_005frandom](#)

Function:

const void * **gnutls_session_get_client_random** (`gnutls_session_t session`)
`session`: is a `gnutls_session_t` structure.

Return a pointer to the 32-byte client random field used in the session. The pointer must not be modified or deallocated.

If a client random value has not yet been established, the output will be garbage; in particular, a `NULL` return value should not be expected.

Returns: pointer to client random data.

gnutls_session_get_data2

[gnutls_005fsession_005fget_005fdata2](#)

Function:

int **gnutls_session_get_data2** (`gnutls_session_t session`, `gnutls_datum_t * data`)
`session`: is a `gnutls_session_t` structure.

`data`: is a pointer to a datum that will hold the session.

Returns all session parameters, in order to support resuming. The client should call this, and keep the returned session, if he wants to resume that current version later by calling `gnutls_session_set_data()`. This function must be called after a successful handshake. The returned datum must be freed with `gnutls_free()`.

Resuming sessions is really useful and speeds up connections after a successful one.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_session_get_data

[gnutls_005fsession_005fget_005fdata](#)

Function: int `gnutls_session_get_data` (`gnutls_session_t session, void * session_data, size_t`

`session_data_size`)
[index-gnutls_005fsession_005fget_005fdata-255](#)

`session`: is a `gnutls_session_t` structure.

`session_data`: is a pointer to space to hold the session.

`session_data_size`: is the `session_data`'s size, or it will be set by the function.

Returns all session parameters, in order to support resuming. The client should call this, and keep the returned session, if he wants to resume that current version later by calling `gnutls_session_set_data()` This function must be called after a successful handshake.

Resuming sessions is really useful and speedups connections after a succesful one.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_session_get_id

[gnutls_005fsession_005fget_005fid](#)

Function: int `gnutls_session_get_id` (`gnutls_session_t session, void * session_id, size_t *`

`session_id_size`)
[index-gnutls_005fsession_005fget_005fid-256](#)

`session`: is a `gnutls_session_t` structure.

`session_id`: is a pointer to space to hold the session id.

`session_id_size`: is the session id's size, or it will be set by the function.

Returns the current session id. This can be used if you want to check if the next session you tried to resume was actually resumed. This is because resumed sessions have the same sessionID with the original session.

Session id is some data set by the server, that identify the current session. In TLS 1.0 and SSL 3.0 session id is always less than 32 bytes.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_session_get_master_secret

[gnutls_005fsession_005fget_005fmaster_005fsecret](#)

Function:

`const void * gnutls_session_get_master_secret(gnutls_session_t session)`
`session`: is a `gnutls_session_t` structure.

Return a pointer to the 48-byte master secret in the session. The pointer must not be modified or deallocated.

If a master secret value has not yet been established, the output will be garbage; in particular, a `NULL` return value should not be expected.

Consider using `gnutls_prf()` rather than extracting the master secret and use it to derive further data.

Returns: pointer to master secret data.

gnutls_session_get_ptr

[gnutls_005fsession_005fget_005fptr](#)

Function:

`void * gnutls_session_get_ptr(gnutls_session_t session)`
`session`: is a `gnutls_session_t` structure.

Get user pointer for session. Useful in callbacks. This is the pointer set with `gnutls_session_set_ptr()`.

Returns: the user given pointer from the session structure, or `NULL` if it was never set.

gnutls_session_get_server_random

[gnutls_005fsession_005fget_005fserver_005frandom](#)

Function:

— Function: `const void * gnutls_session_get_server_random` (`gnutls_session_t session`)
Returns: `gnutls_session_t` structure.

Return a pointer to the 32-byte server random field used in the session. The pointer must not be modified or deallocated.

If a server random value has not yet been established, the output will be garbage; in particular, a `NULL` return value should not be expected.

Returns: pointer to server random data.

gnutls_session_is_resumed

`gnutls_session_is_resumed`

`gnutls_session_is_resumed`

— Function: `int gnutls_session_is_resumed` (`gnutls_session_t session`)
Returns: non zero if this session is resumed, or a zero if this is a new session.

Check whether session is resumed or not.

Returns: non zero if this session is resumed, or a zero if this is a new session.

gnutls_session_set_data

`gnutls_session_set_data`

`gnutls_session_set_data`

— Function: `int gnutls_session_set_data` (`gnutls_session_t session`, `const void * session_data`, `size_t session_data_size`)
Returns: `gnutls_session_t` structure.

`session_data`: is a pointer to space to hold the session.

`session_data_size`: is the session's size

Sets all session parameters, in order to resume a previously established session. The session data given must be the one returned by `gnutls_session_get_data`. This function should be called before `gnutls_handshake`.

Keep in mind that session resuming is advisory. The server may

choose not to resume the session, thus a full handshake will be performed.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_session_set_finished_function

– Function: void `gnutls_session_set_finished_function` (`gnutls_session_t session`, `gnutls_finished_callback_func func`)

`gnutls_session`: is a `gnutls_session_t` structure.

`func`: a `gnutls_finished_callback_func` callback.

Register a callback function for the session that will be called when a TLS Finished message has been generated. The function is typically used to copy away the TLS finished message for later use as a channel binding or similar purpose.

The callback should follow this prototype:

```
void callback (gnutls_session_t session, const void *finished, size_t len);
```

The `finished` parameter will contain the binary TLS finished message, and `len` will contain its length. For SSLv3 connections, the `len` parameter will be 36 and for TLS connections it will be 12.

It is recommended that the function returns quickly in order to not delay the handshake. Use the function to store a copy of the TLS finished message for later use.

Since: 2.6.0

gnutls_session_set_ptr

– Function: void `gnutls_session_set_ptr` (`gnutls_session_t session`, void * `ptr`)

`session`: is a `gnutls_session_t` structure.

<p><var>ptr</var>: is the user pointer

<p>This function will set (associate) the user given pointer <code>ptr</code> to the session structure. This is pointer can be accessed with <code>gnutls_session_get_ptr()</code>.

gnutls_set_default_export_priority

<p>

<div class="defun">

— Function: int gnutls_set_default_export_priority (<var>gnutls_session_t session</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Sets some default priority on the ciphers, key exchange methods, macs and compression methods. This function also includes weak algorithms.

<p>This is the same as calling:
gnutls_priority_set_direct (session, "EXPORT", NULL);

<p>This function is kept around for backwards compatibility, but because of its wide use it is still fully supported. If you wish to allow users to provide a string that specify which ciphers to use (which is recommended), you should use <code>gnutls_priority_set_direct()</code> or <code>gnutls_priority_set()</code> instead.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

gnutls_set_default_priority

<p>

<div class="defun">

— Function: int gnutls_set_default_priority (<var>gnutls_session_t session</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Sets some default priority on the ciphers, key exchange methods, macs and compression methods.

<p>This is the same as calling:
gnutls_priority_set_direct (session, "NORMAL", NULL);

<p>This function is kept around for backwards compatibility, but

because of its wide use it is still fully supported. If you wish to allow users to provide a string that specify which ciphers to use (which is recommended), you should use `gnutls_priority_set_direct()` or `gnutls_priority_set()` instead.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_sign_algorithm_get_name

[gnutls_005fsign_005falgorithm_005fget_005fname](#)

Function: `const char * gnutls_sign_algorithm_get_name` (`gnutls_sign_algorithm_t sign`)

`sign`: is a sign algorithm

Convert a `gnutls_sign_algorithm_t` value to a string.

Returns: a string that contains the name of the specified sign algorithm, or `NULL`.

gnutls_sign_callback_get

[gnutls_005fsign_005fcallback_005fget](#)

Function: `gnutls_sign_func gnutls_sign_callback_get` (`gnutls_session_t session`, `void ** userdata`)

`session`: is a gnutls session

`userdata`: if non-`NULL`, will be set to abstract callback pointer.

Retrieve the callback function, and its userdata pointer.

Returns: The function pointer set by `gnutls_sign_callback_set()`, or if not set, `NULL`.

gnutls_sign_callback_set

[gnutls_005fsign_005fcallback_005fset](#)

Function: `void gnutls_sign_callback_set` (`gnutls_session_t session`, `gnutls_sign_func sign_func`, `void * userdata`)

`session`, `sign_func`, `userdata`

<blockquote><p><var>session</var>: is a gnutls session

<p><var>sign_func</var>: function pointer to application's sign callback.

<p><var>userdata</var>: void pointer that will be passed to sign callback.

<p>Set the callback function. The function must have this prototype:

```
<p>typedef int (*gnutls_sign_func) (gnutls_session_t session,
void *userdata,
gnutls_certificate_type_t cert_type,
const gnutls_datum_t * cert,
const gnutls_datum_t * hash,
gnutls_datum_t * signature);
```

<p>The <code>userdata</code> parameter is passed to the <code>sign_func</code> verbatim, and can be used to store application-specific data needed in the callback function. See also <code>gnutls_sign_callback_get()</code>.

</p></blockquote></div>

<h4 class="subheading">gnutls_sign_get_id</h4>

<p>

<div class="defun">

— Function: gnutls_sign_algorithm_t gnutls_sign_get_id (<var>const char * name</var>)<var></var>

<blockquote><p><var>name</var>: is a MAC algorithm name

<p>The names are compared in a case insensitive way.

<p>Returns: return a <code>gnutls_sign_algorithm_t</code> value corresponding to the specified cipher, or <code>GNUTLS_SIGN_UNKNOWN</code> on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_sign_get_name</h4>

<p>

<div class="defun">

— Function: const char * gnutls_sign_get_name (<var>gnutls_sign_algorithm_t algorithm</var>)<var></var>

<blockquote><p><var>algorithm</var>: is a public key signature algorithm

<p>Convert a <code>gnutls_sign_algorithm_t</code> value to a string.

<p>Returns: a pointer to a string that contains the name of the specified public key signature algorithm, or <code>NULL</code>.

<p>Since: 2.6.0

</p></blockquote></div>

<h4 class="subheading">gnutls_sign_list</h4>

<p>

<div class="defun">

— Function: const gnutls_sign_algorithm_t * gnutls_sign_list (<var> void</var>)<var></var>

<blockquote>

<p>Get a list of supported public key signature algorithms.

<p>Returns: a zero-terminated list of <code>gnutls_sign_algorithm_t</code> integers indicating the available ciphers.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_allocate_client_credentials</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_allocate_client_credentials (<var>gnutls_srp_client_credentials_t * sc</var>)<var></var>

<blockquote><p><var>sc</var>: is a pointer to a <code>gnutls_srp_server_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_allocate_server_credentials</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_allocate_server_credentials (<var>gnutls_srp_server_credentials_t * sc</var>)<var></var>

<blockquote><p><var>sc</var>: is a pointer to a <code>gnutls_srp_server_credentials_t</code> structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_base64_decode_alloc</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_base64_decode_alloc (<var>const gnutls_datum_t * b64_data, gnutls_datum_t * result</var>)<var></var>

<blockquote><p><var>b64_data</var>: contains the encoded data

<p><var>result</var>: the place where decoded data lie

<p>This function will decode the given encoded data. The decoded data will be allocated, and stored into result. It will decode using the base64 algorithm as used in libsrp.

<p>You should use <code>gnutls_free()</code> to free the returned data.

<p>Warning! This base64 encoding is not the "standard" encoding, so do not use it for non-SRP purposes.

<p>Returns: 0 on success, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_base64_decode</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_base64_decode (<var>const gnutls_datum_t * b64_data, char * result, size_t * result_size</var>)<var></var>

<blockquote><p><var>b64_data</var>: contain the encoded data

<p><var>result</var>: the place where decoded data will be copied

<p><var>result_size</var>: holds the size of the result

<p>This function will decode the given encoded data, using the base64 encoding found in libsrp.

<p>Note that b64_data should be null terminated.

<p>Warning! This base64 encoding is not the "standard" encoding, so do not use it for non-SRP purposes.

<p>Returns: <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if the buffer given is

not

long enough, or 0 on success.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_base64_encode_alloc</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_base64_encode_alloc (<var>const gnutls_datum_t * data, gnutls_datum_t * result</var>)<var></var>

<blockquote><p><var>data</var>: contains the raw data

<p><var>result</var>: will hold the newly allocated encoded data

<p>This function will convert the given data to printable data, using the base64 encoding. This is the encoding used in SRP password files. This function will allocate the required memory to hold the encoded data.

<p>You should use <code>gnutls_free()</code> to free the returned data.

<p>Warning! This base64 encoding is not the "standard" encoding, so do not use it for non-SRP purposes.

<p>Returns: 0 on success, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_base64_encode</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_base64_encode (<var>const gnutls_datum_t * data, char * result, size_t * result_size</var>)<var></var>

<blockquote><p><var>data</var>: contain the raw data

<p><var>result</var>: the place where base64 data will be copied

<p><var>result_size</var>: holds the size of the result

<p>This function will convert the given data to printable data, using the base64 encoding, as used in the libsrp. This is the encoding used in SRP password files. If the provided buffer is not long enough GNUTLS_E_SHORT_MEMORY_BUFFER is returned.

<p>Warning! This base64 encoding is not the "standard" encoding, so

do not use it for non-SRP purposes.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the buffer given is not long enough, or 0 on success.

gnutls_srp_free_client_credentials

[gnutls_005fsrp_005ffree_005fclient_005fcredentials](#)

Function: void `gnutls_srp_free_client_credentials` (`gnutls_srp_client_credentials_t` `sc`)

`sc`: is a `gnutls_srp_client_credentials_t` structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_srp_free_server_credentials

[gnutls_005fsrp_005ffree_005fserver_005fcredentials](#)

Function: void `gnutls_srp_free_server_credentials` (`gnutls_srp_server_credentials_t` `sc`)

`sc`: is a `gnutls_srp_server_credentials_t` structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_srp_server_get_username

[gnutls_005fsrp_005fserver_005fget_005fusername](#)

Function: const char * `gnutls_srp_server_get_username` (`gnutls_session_t` `session`)

`session`: is a gnutls session

This function will return the username of the peer. This should only be called in case of SRP authentication and in case of a server. Returns NULL in case of an error.

Returns: SRP username of the peer, or NULL in case of error.

gnutls_srp_set_client_credentials_function

[gnutls_005fsrp_005fset_005fclient_005fcredentials_005ffunction](#)

<div class="defun">

— Function: void **gnutls_srp_set_client_credentials_function** (`gnutls_srp_client_credentials_t cred, gnutls_srp_client_credentials_function * func`)
[index-gnutls_005fsrp_005fset_005fclient_005fcredentials_005ffunction-281](#)
`cred`: is a `gnutls_srp_server_credentials_t` structure.

`func`: is the callback function

This function can be used to set a callback to retrieve the username and password for client SRP authentication.

The callback's function form is:

```
int (*callback)(gnutls_session_t, char** username, char**password);
```

The `username` and `password` must be allocated using `gnutls_malloc()`. `username` and `password` should be ASCII strings or UTF-8 strings prepared using the "SASLprep" profile of "stringprep".

The callback function will be called once per handshake before the initial hello message is sent.

The callback should not return a negative error code the second time called, since the handshake procedure will be aborted.

The callback function should return 0 on success.
-1 indicates an error.

gnutls_srp_set_client_credentials

[gnutls_005fsrp_005fset_005fclient_005fcredentials](#)

<div class="defun">

— Function: int **gnutls_srp_set_client_credentials** (`gnutls_srp_client_credentials_t res, const char * username, const char * password`)
[index-gnutls_005fsrp_005fset_005fclient_005fcredentials-282](#)
`res`: is a `gnutls_srp_client_credentials_t` structure.

`username`: is the user's userid

`password`: is the user's password

<p>This function sets the username and password, in a <code>gnutls_srp_client_credentials_t</code> structure. Those will be used in SRP authentication. <code>username</code> and <code>password</code> should be ASCII strings or UTF-8 strings prepared using the "SASLprep" profile of "stringprep".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_srp_set_prime_bits</h4>

<p>

<div class="defun">

— Function: void gnutls_srp_set_prime_bits (<var>gnutls_session_t session, unsigned int bits</var>)<var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>bits</var>: is the number of bits

<p>This function sets the minimum accepted number of bits, for use in an SRP key exchange. If zero, the default 2048 bits will be used.

<p>In the client side it sets the minimum accepted number of bits. If a server sends a prime with less bits than that <code>GNUTLS_E_RECEIVED_ILLEGAL_PARAMETER</code> will be returned by the handshake.

<p>This function has no effect in server side.

<p>Since: 2.6.0
</p></blockquote></div>

<h4 class="subheading">gnutls_srp_set_server_credentials_file</h4>

<p>

<div class="defun">

— Function: int gnutls_srp_set_server_credentials_file (<var>gnutls_srp_server_credentials_t res, const char * password_file, const char * password_conf_file</var>)<var></var>
<blockquote><p><var>res</var>: is a <code>gnutls_srp_server_credentials_t</code> structure.

<p><var>password_file</var>: is the SRP password file (tpasswd)

<p><var>password_conf_file</var>: is the SRP password conf file (tpasswd.conf)

This function sets the password files, in a `gnutls_srp_server_credentials_t` structure. Those password files hold usernames and verifiers and will be used for SRP authentication.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, or an error code.

gnutls_srp_set_server_credentials_function

[gnutls_005fsrp_005fset_005fserver_005fcredentials_005ffunction](#)

Function: void `gnutls_srp_set_server_credentials_function` (`gnutls_srp_server_credentials_t cred, gnutls_srp_server_credentials_function * func`)

`cred`: is a `gnutls_srp_server_credentials_t` structure.

`func`: is the callback function

This function can be used to set a callback to retrieve the user's SRP credentials.

The callback's function form is:

```
int (*callback)(gnutls_session_t, const char* username,
gnutls_datum_t* salt, gnutls_datum_t *verifier, gnutls_datum_t* g,
gnutls_datum_t* n);
```

`username` contains the actual username.

The `salt`, `verifier`, `generator` and `prime` must be filled in using the `gnutls_malloc()`. For convenience `prime` and `generator` may also be one of the static parameters defined in `extra.h`.

In case the callback returned a negative number then gnutls will assume that the username does not exist.

In order to prevent attackers from guessing valid usernames, if a user does not exist, `g` and `n` values should be filled in using a random user's parameters. In that case the callback must return the special value (1).

The callback function will only be called once per handshake.

The callback function should return 0 on success, while

-1 indicates an error.

gnutls_srp_verifier

<p>

<div class="defun">

— Function: int gnutls_srp_verifier (<var>const char * username, const char * password, const gnutls_datum_t * salt, const gnutls_datum_t * generator, const gnutls_datum_t * prime, gnutls_datum_t * res</var>)<var></var>

<blockquote><p><var>username</var>: is the user's name

<p><var>password</var>: is the user's password

<p><var>salt</var>: should be some randomly generated bytes

<p><var>generator</var>: is the generator of the group

<p><var>prime</var>: is the group's prime

<p><var>res</var>: where the verifier will be stored.

<p>This function will create an SRP verifier, as specified in RFC2945. The <code>prime</code> and <code>generator</code> should be one of the static parameters defined in gnutls/extra.h or may be generated using the libgcrypt functions <code>gcry_prime_generate()</code> and <code>gcry_prime_group_generator()</code>.

<p>The verifier will be allocated with <code>malloc</code> and will be stored in <code>res</code> using binary format.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (0) is returned, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_strerror_name</h4>

<p>

<div class="defun">

— Function: const char * gnutls_strerror_name (<var>int error</var>)<var></var>

<blockquote><p><var>error</var>: is an error returned by a gnutls function.

<p>Return the GnuTLS error code define as a string. For example, gnutls_strerror_name (GNUTLS_E_DH_PRIME_UNACCEPTABLE) will return the string "GNUTLS_E_DH_PRIME_UNACCEPTABLE".

<p>Returns: A string corresponding to the symbol name of the error code.

<p>Since: 2.6.0

</p></blockquote></div>

<h4 class="subheading">gnutls_strerror</h4>

<p>

<div class="defun">

— Function: const char * gnutls_strerror (<var>int error</var>)<var></var>

<blockquote><p><var>error</var>: is a GnuTLS error code, a negative value

<p>This function is similar to <code>strerror()</code>. Differences: it accepts an error number returned by a gnutls function; In case of an unknown error a descriptive string is sent instead of NULL.

<p>Error codes are always a negative value.

<p>Returns: A string explaining the GnuTLS error message.</p></blockquote></div>

<h4 class="subheading">gnutls_transport_get_ptr2</h4>

<p>

<div class="defun">

— Function: void gnutls_transport_get_ptr2 (<var>gnutls_session_t session, gnutls_transport_ptr_t *rcv_ptr, gnutls_transport_ptr_t * send_ptr</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>rcv_ptr</var>: will hold the value for the pull function

<p><var>send_ptr</var>: will hold the value for the push function

<p>Used to get the arguments of the transport functions (like PUSH and PULL). These should have been set using <code>gnutls_transport_set_ptr2()</code>.</p></blockquote></div>

<h4 class="subheading">gnutls_transport_get_ptr</h4>

<p>

<div class="defun">

— Function: gnutls_transport_ptr_t gnutls_transport_get_ptr (<var>gnutls_session_t session</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Used to get the first argument of the transport function (like PUSH and PULL). This must have been set using <code>gnutls_transport_set_ptr()</code>.

<p>Returns: first argument of the transport function.</p></blockquote></div>

<h4 class="subheading">gnutls_transport_set_errno</h4>

<p>

<div class="defun">

— Function: void gnutls_transport_set_errno (<var>gnutls_session_t session, int err</var>)<var></var>

<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p><var>err</var>: error value to store in session-specific errno variable.

<p>Store <code>err</code> in the session-specific errno variable. Useful values for <code>err</code> is EAGAIN and EINTR, other values are treated will be treated as real errors in the push/pull function.

<p>This function is useful in replacement push/pull functions set by gnutls_transport_set_push_function and gnutls_transport_set_pullpush_function under Windows, where the replacement push/pull may not have access to the same <code>errno</code> variable that is used by GnuTLS (e.g., the application is linked to msvcrt71.dll and gnutls is linked to msvcrt.dll).

<p>If you don't have the <code>session</code> variable easily accessible from the push/pull function, and don't worry about thread conflicts, you can also use <code>gnutls_transport_set_global_errno()</code>.

</p></blockquote></div>

<h4 class="subheading">gnutls_transport_set_global_errno</h4>

<p>

<div class="defun">

— Function: void gnutls_transport_set_global_errno (<var>int err</var>)<var></var>

<blockquote><p><var>err</var>: error value to store in global errno variable.

<p>Store <code>err</code> in the global errno variable. Useful values for <code>err</code> is EAGAIN and EINTR, other values are treated will be treated as real errors in the push/pull function.

<p>This function is useful in replacement push/pull functions set by

`gnutls_transport_set_push_function` and `gnutls_transport_set_pullpush_function` under Windows, where the replacement push/pull may not have access to the same `errno` variable that is used by GnuTLS (e.g., the application is linked to `msvcr71.dll` and `gnutls` is linked to `msvcrt.dll`).

Whether this function is thread safe or not depends on whether the global variable `errno` is thread safe, some system libraries make it a thread-local variable. When feasible, using the guaranteed thread-safe `gnutls_transport_set_errno()` may be better.

gnutls_transport_set_lowat

[gnutls_transport_set_lowat](#)

Function:

`void gnutls_transport_set_lowat(gnutls_session_t session, int num)`
`session`: is a `gnutls_session_t` structure.

`num`: is the low water value.

Used to set the lowat value in order for select to check if there are pending data to socket buffer. Used only if you have changed the default low water value (default is 1). Normally you will not need that function. This function is only useful if using Berkeley style sockets. Otherwise it must be called and set lowat to zero.

gnutls_transport_set_ptr2

[gnutls_transport_set_ptr2](#)

Function:

`void gnutls_transport_set_ptr2(gnutls_session_t session, gnutls_transport_ptr_t recv_ptr, gnutls_transport_ptr_t send_ptr)`
`session`: is a `gnutls_session_t` structure.

`recv_ptr`: is the value for the pull function

`send_ptr`: is the value for the push function

Used to set the first argument of the transport function (like PUSH and PULL). In Berkeley style sockets this function will set the connection handle. With this function you can use two

different pointers for receiving and sending.

gnutls_transport_set_ptr

– Function: void **gnutls_transport_set_ptr** (`gnutls_session_t session, gnutls_transport_ptr_t ptr`)

`session`: is a `gnutls_session_t` structure.

`ptr`: is the value.

Used to set the first argument of the transport function (like PUSH and PULL). In Berkeley style sockets this function will set the connection handle.

gnutls_transport_set_pull_function

– Function: void **gnutls_transport_set_pull_function** (`gnutls_session_t session, gnutls_pull_func pull_func`)

`session`: gnutls session

`pull_func`: a callback function similar to `read()`

This is the function where you set a function for gnutls to receive data. Normally, if you use Berkeley style sockets, do not need to use this function since the default (`recv(2)`) will probably be ok.

PULL_FUNC is of the form,
`ssize_t (*gnutls_pull_func)(gnutls_transport_ptr_t, void*, size_t);`

gnutls_transport_set_push_function

– Function: void **gnutls_transport_set_push_function** (`gnutls_session_t session, gnutls_push_func push_func`)

`session`: gnutls session

<p><var>push_func</var>: a callback function similar to <code>write()</code>

<p>This is the function where you set a push function for gnutls to use in order to send data. If you are going to use berkeley style sockets, you do not need to use this function since the default (send(2)) will probably be ok. Otherwise you should specify this function for gnutls to be able to send data.

<p>PUSH_FUNC is of the form,
ssize_t (*gnutls_push_func)(gnutls_transport_ptr_t, const void*, size_t);
</p></blockquote></div>

<div class="node">

<p><hr>
Next: GnuTLS-extra functions,
Previous: Core functions,
Up: Function reference
</div>

<h3 class="section">9.2 <acronym>X.509</acronym> Certificate Functions</h3>

<p>

The following functions are to be used for <acronym>X.509</acronym> certificate handling. Their prototypes lie in <samp>gnutls/x509.h</samp>.

<h4 class="subheading">gnutls_pkcs12_bag_decrypt</h4>

<p>

<div class="defun">
— Function: int gnutls_pkcs12_bag_decrypt (<var>gnutls_pkcs12_bag_t bag, const char * pass</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>pass</var>: The password used for encryption, must be ASCII.

<p>This function will decrypt the given encrypted bag and return 0 on success.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.
</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_deinit</h4>

<p>

<div class="defun">

— Function: void gnutls_pkcs12_bag_deinit (<var>gnutls_pkcs12_bag_t bag</var>)<var></var>

<blockquote><p><var>bag</var>: The structure to be initialized

<p><var>pass</var>: The password used for encryption, must be ASCII

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_encrypt</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_encrypt (<var>gnutls_pkcs12_bag_t bag, const char * pass, unsigned int flags</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>pass</var>: The password used for encryption, must be ASCII

<p><var>flags</var>: should be one of <code>gnutls_pkcs_encrypt_flags_t</code> elements bitwise or'd

<p>This function will encrypt the given bag.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_get_count</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_get_count (<var>gnutls_pkcs12_bag_t bag</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p>This function will return the number of the elements withing the bag.

<p>Returns: Number of elements in bag, or an negative error code on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_get_data</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_get_data (<var>gnutls_pkcs12_bag_t bag, int indx, gnutls_datum_t * data</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>indx</var>: The element of the bag to get the data from

<p><var>data</var>: where the bag's data will be. Should be treated as constant.

<p>This function will return the bag's data. The data is a constant that is stored into the bag. Should not be accessed after the bag is deleted.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.and a negative error code on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_get_friendly_name</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_get_friendly_name (<var>gnutls_pkcs12_bag_t bag, int indx, char ** name</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>indx</var>: The bag's element to add the id

<p><var>name</var>: will hold a pointer to the name (to be treated as const)

<p>This function will return the friendly name, of the specified bag element. The key ID is usually used to distinguish the local private key and the certificate pair.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_get_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_get_key_id (<var>gnutls_pkcs12_bag_t bag, int indx, gnutls_datum_t * id</var>)<var><a name="index-gnutls_005fpkcs12_005fbag_005fget_005fkey_005fid-

305"></var>

<blockquote><p><var>bag</var>: The bag

<p><var>indx</var>: The bag's element to add the id

<p><var>id</var>: where the ID will be copied (to be treated as const)

<p>This function will return the key ID, of the specified bag element.
The key ID is usually used to distinguish the local private key and the certificate pair.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_get_type</h4>

<p>

<div class="defun">

— Function: gnutls_pkcs12_bag_type_t gnutls_pkcs12_bag_get_type (<var>gnutls_pkcs12_bag_t bag, int indx</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>indx</var>: The element of the bag to get the type

<p>This function will return the bag's type.

<p>Returns: One of the <code>gnutls_pkcs12_bag_type_t</code> enumerations.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_init</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_init (<var>gnutls_pkcs12_bag_t * bag</var>)<var></var>

<blockquote><p><var>bag</var>: The structure to be initialized

<p>This function will initialize a PKCS12 bag structure. PKCS12 Bags usually contain private keys, lists of X.509 Certificates and X.509 Certificate revocation lists.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_set_crl</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_set_crl (<var>gnutls_pkcs12_bag_t bag, gnutls_x509_crl_t crl</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>crl</var>: the CRL to be copied.

<p>This function will insert the given CRL into the bag. This is just a wrapper over <code>gnutls_pkcs12_bag_set_data()</code>.

<p>Returns: the index of the added bag on success, or a negative value on failure.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_set_crt</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_set_crt (<var>gnutls_pkcs12_bag_t bag, gnutls_x509_crt_t crt</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>crt</var>: the certificate to be copied.

<p>This function will insert the given certificate into the bag. This is just a wrapper over <code>gnutls_pkcs12_bag_set_data()</code>.

<p>Returns: the index of the added bag on success, or a negative value on failure.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_bag_set_data</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_set_data (<var>gnutls_pkcs12_bag_t bag, gnutls_pkcs12_bag_type_t type, const gnutls_datum_t * data</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>type</var>: The data's type

<p><var>data</var>: the data to be copied.

<p>This function will insert the given data of the given type into the bag.

<p>Returns: the index of the added bag on success, or a negative value on error.

</p></blockquote></div>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_set_friendly_name (<var>gnutls_pkcs12_bag_t bag, int indx, const char * name</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>indx</var>: The bag's element to add the id

<p><var>name</var>: the name

<p>This function will add the given key friendly name, to the specified, by the index, bag element. The name will be encoded as a 'Friendly name' bag attribute, which is usually used to set a user name to the local private key and the certificate pair.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. or a negative value on error.

</p></blockquote></div>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_bag_set_key_id (<var>gnutls_pkcs12_bag_t bag, int indx, const gnutls_datum_t * id</var>)<var></var>

<blockquote><p><var>bag</var>: The bag

<p><var>indx</var>: The bag's element to add the id

<p><var>id</var>: the ID

<p>This function will add the given key ID, to the specified, by the index, bag element. The key ID will be encoded as a 'Local key identifier' bag attribute, which is usually used to distinguish the local private key and the certificate pair.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. or a negative value on error.

gnutls_pkcs12_deinit

Function: void `gnutls_pkcs12_deinit` (`gnutls_pkcs12_t pkcs12`)
`index-gnutls_005fpkcs12_005fdeinit-313`

`pkcs12`: The structure to be initialized

This function will deinitialize a PKCS12 structure.

gnutls_pkcs12_export

Function: int `gnutls_pkcs12_export` (`gnutls_pkcs12_t pkcs12`, `gnutls_x509_crt_fmt_t format`, void * `output_data`, `size_t * output_data_size`)
`index-gnutls_005fpkcs12_005fexport-314`

`pkcs12`: Holds the pkcs12 structure

`format`: the format of output params. One of PEM or DER.

`output_data`: will contain a structure PEM or DER encoded

`output_data_size`: holds the size of `output_data` (and will be replaced by the actual size of parameters)

This function will export the `pkcs12` structure to DER or PEM format.

If the buffer provided is not long enough to hold the output, then `*output_data_size` will be updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN PKCS12".

Return value: In case of failure a negative value will be returned, and 0 on success.

gnutls_pkcs12_generate_mac

<p>

<div class="defun">

— Function: int gnutls_pkcs12_generate_mac (<var>gnutls_pkcs12_t pkcs12, const char * pass</var>)<var></var>
<blockquote><p><var>pkcs12</var>: should contain a gnutls_pkcs12_t structure

<p><var>pass</var>: The password for the MAC

<p>This function will generate a MAC for the PKCS12 structure.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_get_bag</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_get_bag (<var>gnutls_pkcs12_t pkcs12, int indx, gnutls_pkcs12_bag_t bag</var>)<var></var>
<blockquote><p><var>pkcs12</var>: should contain a gnutls_pkcs12_t structure

<p><var>indx</var>: contains the index of the bag to extract

<p><var>bag</var>: An initialized bag, where the contents of the bag will be copied

<p>This function will return a Bag from the PKCS12 structure.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>After the last Bag has been read GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE will be returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs12_import</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs12_import (<var>gnutls_pkcs12_t pkcs12, const gnutls_datum_t * data, gnutls_x509_crt_fmt_t format, unsigned int flags</var>)<var></var>
<blockquote><p><var>pkcs12</var>: The structure to store the parsed PKCS12.

<p><var>data</var>: The DER or PEM encoded PKCS12.

<p><var>format</var>: One of DER or PEM

<p><var>flags</var>: an ORed sequence of gnutls_privkey_pkcs8_flags

<p>This function will convert the given DER or PEM encoded PKCS12 to the native gnutls_pkcs12_t format. The output will be stored in 'pkcs12'.

<p>If the PKCS12 is PEM encoded it should have a header of "PKCS12".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_pkcs12_init (<var>gnutls_pkcs12_t * pkcs12</var><var></var>
 <blockquote><p><var>pkcs12</var>: The structure to be initialized <p>This function will initialize a PKCS12 structure. PKCS12 structures usually contain lists of X.509 Certificates and X.509 Certificate revocation lists. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_pkcs12_set_bag (<var>gnutls_pkcs12_t pkcs12, gnutls_pkcs12_bag_t bag</var><var></var>
 <blockquote><p><var>pkcs12</var>: should contain a gnutls_pkcs12_t structure <p><var>bag</var>: An initialized bag <p>This function will insert a Bag into the PKCS12 structure. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 498

gnutls_pkcs12_verify_mac

[gnutls_005fpkcs12_005fverify_005fmac](#)

Function:

int **gnutls_pkcs12_verify_mac** (gnutls_pkcs12_t pkcs12, const char * pass)

pkcs12: should contain a gnutls_pkcs12_t structure

pass: The password for the MAC

This function will verify the MAC for the PKCS12 structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs7_deinit

[gnutls_005fpkcs7_005fdeinit](#)

Function:

void **gnutls_pkcs7_deinit** (gnutls_pkcs7_t pkcs7)

pkcs7: The structure to be initialized

This function will deinitialize a PKCS7 structure.

gnutls_pkcs7_delete_crl

[gnutls_005fpkcs7_005fdelete_005fcrl](#)

Function:

int **gnutls_pkcs7_delete_crl** (gnutls_pkcs7_t pkcs7, int indx)

pkcs7: should contain a `gnutls_pkcs7_t` structure

indx: the index of the crl to delete

This function will delete a crl from a PKCS7 or RFC2630 crl set. Index starts from 0. Returns 0 on success.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

<h4 class="subheading">gnutls_pkcs7_delete_crt</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_delete_crt (<var>gnutls_pkcs7_t pkcs7, int indx</var>)<var></var>

<blockquote><p><var>pkcs7</var>: should contain a gnutls_pkcs7_t structure

<p><var>indx</var>: the index of the certificate to delete

<p>This function will delete a certificate from a PKCS7 or RFC2630 certificate set. Index starts from 0. Returns 0 on success.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_export</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_export (<var>gnutls_pkcs7_t pkcs7, gnutls_x509_crt_fmt_t format, void * output_data, size_t * output_data_size</var>)<var></var>

<blockquote><p><var>pkcs7</var>: Holds the pkcs7 structure

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>output_data</var>: will contain a structure PEM or DER encoded

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will export the pkcs7 structure to DER or PEM format.

<p>If the buffer provided is not long enough to hold the output, then *<code>output_data_size</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN PKCS7".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_get_crl_count</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_get_crl_count (<var>gnutls_pkcs7_t pkcs7</var>)<var></var>

<blockquote><p><var>pkcs7</var>: should contain a gnutls_pkcs7_t structure

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_get_crl_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_get_crl_raw (<var>gnutls_pkcs7_t pkcs7, int indx, void * crl, size_t * crl_size</var>)<var></var>

<blockquote><p><var>pkcs7</var>: should contain a <code>gnutls_pkcs7_t</code> structure

<p><var>indx</var>: contains the index of the crl to extract

<p><var>crl</var>: the contents of the crl will be copied there (may be null)

<p><var>crl_size</var>: should hold the size of the crl

<p>This function will return a crl of the PKCS7 or RFC2630 crl set.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. If the provided buffer is not long enough,

then <code>crl_size</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> is returned. After the last crl has been read

<code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_get_cert_count</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_get_cert_count (<var>gnutls_pkcs7_t pkcs7</var>)<var></var>

<blockquote><p><var>pkcs7</var>: should contain a <code>gnutls_pkcs7_t</code> structure

<p>This function will return the number of certificates in the PKCS7 or RFC2630 certificate set.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_get_cert_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_get_cert_raw (<var>gnutls_pkcs7_t pkcs7, int indx, void * certificate, size_t * certificate_size</var>)<var></var>

<blockquote><p><var>pkcs7</var>: should contain a gnutls_pkcs7_t structure

<p><var>indx</var>: contains the index of the certificate to extract

<p><var>certificate</var>: the contents of the certificate will be copied there (may be null)

<p><var>certificate_size</var>: should hold the size of the certificate

<p>This function will return a certificate of the PKCS7 or RFC2630 certificate set.

<p>After the last certificate has been read

<code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. If the provided buffer is not long enough,

then <code>certificate_size</code> is updated and

<code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_import</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_import (<var>gnutls_pkcs7_t pkcs7, const gnutls_datum_t * data, gnutls_x509_cert_fmt_t format</var>)<var></var>

<blockquote><p><var>pkcs7</var>: The structure to store the parsed PKCS7.

<p><var>data</var>: The DER or PEM encoded PKCS7.

<p><var>format</var>: One of DER or PEM

<p>This function will convert the given DER or PEM encoded PKCS7 to the native <code>gnutls_pkcs7_t</code> format. The output will be stored in 'pkcs7'.

<p>If the PKCS7 is PEM encoded it should have a header of "PKCS7".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_pkcs7_init (<var>gnutls_pkcs7_t * pkcs7</var><var></var>
 <blockquote><p><var>pkcs7</var>: The structure to be initialized <p>This function will initialize a PKCS7 structure. PKCS7 structures usually contain lists of X.509 Certificates and X.509 Certificate revocation lists. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_pkcs7_set_crl_raw (<var>gnutls_pkcs7_t pkcs7, const gnutls_datum_t * crl</var><var></var>
 <blockquote><p><var>pkcs7</var>: should contain a <code>gnutls_pkcs7_t</code> structure <p><var>crl</var>: the DER encoded crl to be added <p>This function will add a crl to the PKCS7 or RFC2630 crl set. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 503

<p>

<div class="defun">

— Function: int gnutls_pkcs7_set_crl (<var>gnutls_pkcs7_t pkcs7, gnutls_x509_crl_t crl</var>)<var></var>
<blockquote><p><var>pkcs7</var>: should contain a <code>gnutls_pkcs7_t</code> structure

<p><var>crl</var>: the DER encoded crl to be added

<p>This function will add a parsed CRL to the PKCS7 or RFC2630 crl set.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_set_crt_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_set_crt_raw (<var>gnutls_pkcs7_t pkcs7, const gnutls_datum_t * crt</var>)<var></var>
<blockquote><p><var>pkcs7</var>: should contain a <code>gnutls_pkcs7_t</code> structure

<p><var>crt</var>: the DER encoded certificate to be added

<p>This function will add a certificate to the PKCS7 or RFC2630 certificate set.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_pkcs7_set_crt</h4>

<p>

<div class="defun">

— Function: int gnutls_pkcs7_set_crt (<var>gnutls_pkcs7_t pkcs7, gnutls_x509_crt_t crt</var>)<var></var>
<blockquote><p><var>pkcs7</var>: should contain a <code>gnutls_pkcs7_t</code> structure

<p><var>crt</var>: the certificate to be copied.

<p>This function will add a parsed certificate to the PKCS7 or RFC2630 certificate set. This is a wrapper function over <code>gnutls_pkcs7_set_crt_raw()</code> .

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_check_issuer

[gnutls_x509_crl_check_issuer](#)

Function: `int gnutls_x509_crl_check_issuer` (`gnutls_x509_crl_t cert, gnutls_x509_crt_t issuer`)

`index-gnutls_x509_crl_check_issuer-335`
`issuer`: is the certificate of a possible issuer

This function will check if the given CRL was issued by the given issuer certificate. It will return true (1) if the given CRL was issued by the given issuer, and false (0) if not.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_deinit

[gnutls_x509_crl_deinit](#)

Function: `void gnutls_x509_crl_deinit` (`gnutls_x509_crl_t crl`)

`index-gnutls_x509_crl_deinit-336`
`crl`: The structure to be initialized

This function will deinitialize a CRL structure.

gnutls_x509_crl_export

[gnutls_x509_crl_export](#)

Function: `int gnutls_x509_crl_export` (`gnutls_x509_crl_t crl, gnutls_x509_crt_fmt_t format, void * output_data, size_t * output_data_size`)

`index-gnutls_x509_crl_export-337`
`crl`: Holds the revocation list

`format`: the format of output params. One of PEM or DER.

`output_data`: will contain a private key PEM or DER encoded

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will export the revocation list to DER or PEM format.

<p>If the buffer provided is not long enough to hold the output, then GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN X509 CRL".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. and a negative value on failure.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_authority_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_authority_key_id (<var>gnutls_x509_crl_t crl, void * ret, size_t * ret_size, unsigned int * critical</var>)<var></var>

<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p><var>ret</var>: The place where the identifier will be copied

<p><var>ret_size</var>: Holds the size of the result field.

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the CRL authority's key identifier. This is obtained by the X.509 Authority Key identifier extension field (2.5.29.35). Note that this function only returns the keyIdentifier field of the extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_cert_count</h4>

<p>

<div class="defun">

— Function: int **gnutls_x509_crl_get_crt_count** (`gnutls_x509_crl_t crl`)
`name="index-gnutls_005fx509_005fcrl_005fget_005fcrt_005fcount-339"></var>
`
`<blockquote><p><var>crl</var>`: should contain a `gnutls_x509_crl_t` structure

`<p>`This function will return the number of revoked certificates in the given CRL.

`<p>Returns:` number of certificates, a negative value on failure.
`</p></blockquote></div>`

`<h4 class="subheading">gnutls_x509_crl_get_crt_serial</h4>`

`<p>`

`<div class="defun">`

— Function: int **gnutls_x509_crl_get_crt_serial** (`gnutls_x509_crl_t crl`, int `indx`, unsigned char * `serial`, size_t * `serial_size`, time_t * `t`)
`<var></var>
`
`<blockquote><p><var>crl</var>`: should contain a `gnutls_x509_crl_t` structure

`<p><var>indx</var>`: the index of the certificate to extract (starting from 0)

`<p><var>serial</var>`: where the serial number will be copied

`<p><var>serial_size</var>`: initially holds the size of serial

`<p><var>t</var>`: if non null, will hold the time this certificate was revoked

`<p>`This function will retrieve the serial number of the specified, by the index, revoked certificate.

`<p>Returns:` On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. and a negative value on error.

`</p></blockquote></div>`

`<h4 class="subheading">gnutls_x509_crl_get_dn_oid</h4>`

`<p>`

`<div class="defun">`

— Function: int **gnutls_x509_crl_get_dn_oid** (`gnutls_x509_crl_t crl`, int `indx`, void * `oid`, size_t * `sizeof_oid`)
`<var></var>
`

`<blockquote><p><var>crl</var>`: should contain a `gnutls_x509_crl_t` structure

`<p><var>indx</var>`: Specifies which DN OID to send. Use zero to get the first one.

`<p><var>oid</var>`: a pointer to a structure to hold the name (may be null)

<p><var>sizeof_oid</var>: initially holds the size of 'oid'

<p>This function will extract the requested OID of the name of the CRL issuer, specified by the given index.

<p>If oid is null then only the size will be filled.

<p>Returns: <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if the provided buffer is

not long enough, and in that case the sizeof_oid will be updated with the required size. On success 0 is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_extension_data</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_extension_data (<var>gnutls_x509_crl_t crl, int indx, void * data, size_t * sizeof_data</var><var></var>

<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send. Use zero to get the first one.

<p><var>data</var>: a pointer to a structure to hold the data (may be null)

<p><var>sizeof_data</var>: initially holds the size of <code>oid</code>

<p>This function will return the requested extension data in the CRL. The extension data will be stored as a string in the provided buffer.

<p>Use <code>gnutls_x509_crl_get_extension_info()</code> to extract the OID and critical flag. Use <code>gnutls_x509_crl_get_extension_by_oid()</code> instead, if you want to get data indexed by the extension OID rather than sequence.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error. If your have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_extension_info</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_extension_info (<var>gnutls_x509_crl_t crl, int indx, void * oid, size_t * sizeof_oid, int * critical</var>)<var><a name="index-

gnutls_005fx509_005fcr1_005fget_005fextension_005finfo-343"></var>

<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send, use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the OID

<p><var>sizeof_oid</var>: initially holds the maximum size of <code>oid</code>, on return holds actual size of <code>oid</code>.

<p><var>critical</var>: output variable with critical flag, may be NULL.

<p>This function will return the requested extension OID in the CRL, and the critical flag for it. The extension OID will be stored as a string in the provided buffer. Use <code>gnutls_x509_crl_get_extension_data()</code> to extract the data.

<p>If the buffer provided is not long enough to hold the output, then *<code>sizeof_oid</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error. If your have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_extension_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_extension_oid (<var>gnutls_x509_crl_t crl, int indx, void * oid, size_t * sizeof_oid</var>)<var><a name="index-gnutls_005fx509_005fcr1_005fget_005fextension_005foid-

344"></var>

<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send, use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the OID (may be null)

<p><var>sizeof_oid</var>: initially holds the size of <code>oid</code>

<p>This function will return the requested extension OID in the CRL.
The extension OID will be stored as a string in the provided
buffer.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a
negative value in case of an error. If you have reached the
last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code>
will be returned.

<p>Since: 2.8.0
</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_issuer_dn_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_issuer_dn_by_oid (<var>gnutls_x509_crl_t crl, const char *
oid, int indx, unsigned int raw_flag, void * buf, size_t * sizeof_buf</var>)<var><a name="index-
gnutls_005fx509_005fcr1_005fget_005fissuer_005fdn_005fby_005foid-345"></var>

<blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>indx</var>: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get
the first one.

<p><var>raw_flag</var>: If non zero returns the raw DER data of the DN part.

<p><var>buf</var>: a pointer to a structure to hold the peer's name (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p>This function will extract the part of the name of the CRL issuer
specified by the given OID. The output will be encoded as described
in RFC2253. The output string will be ASCII or UTF-8 encoded,
depending on the certificate data.

<p>Some helper macros with popular OIDs can be found in gnutls/x509.h
If raw flag is zero, this function will only return known OIDs as
text. Other OIDs will be DER encoded, as described in RFC2253 – in
hex format with a '#' prefix. You can check about known OIDs
using <code>gnutls_x509_dn_oid_known</code>.

<p>If buf is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `sizeof_buf` will be updated with the required size, and 0 on success.

gnutls_x509_crl_get_issuer_dn

[gnutls_005fx509_005fcrl_005fget_005fissuer_005fdn](#)

Function:

int **gnutls_x509_crl_get_issuer_dn** (const gnutls_x509_crl_t crl, char * buf, size_t * sizeof_buf)

`crl`: should contain a `gnutls_x509_crl_t` structure

`buf`: a pointer to a structure to hold the peer's name (may be null)

`sizeof_buf`: initially holds the size of `buf`

This function will copy the name of the CRL issuer in the provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If `buf` is `NULL` then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `sizeof_buf` will be updated with the required size, and 0 on success.

gnutls_x509_crl_get_next_update

[gnutls_005fx509_005fcrl_005fget_005fnext_005fupdate](#)

Function:

time_t **gnutls_x509_crl_get_next_update** (gnutls_x509_crl_t crl)

`crl`: should contain a `gnutls_x509_crl_t` structure

This function will return the time the next CRL will be issued. This field is optional in a CRL so it might be normal to get an error instead.

Returns: when the next CRL will be issued, or (time_t)-1 on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_number</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_number (<var>gnutls_x509_crl_t crl, void * ret, size_t * ret_size, unsigned int * critical</var>)<var></var>

<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p><var>ret</var>: The place where the number will be copied

<p><var>ret_size</var>: Holds the size of the result field.

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the CRL number extension. This is obtained by the CRL Number extension field (2.5.29.20).

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_signature_algorithm</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_get_signature_algorithm (<var>gnutls_x509_crl_t crl</var>)<var></var>

<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p>This function will return a value of the <code>gnutls_sign_algorithm_t</code> enumeration that is the signature algorithm.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_signature</h4>

<p>

<div class="defun">
— Function: int gnutls_x509_crl_get_signature (<var>gnutls_x509_crl_t crl, char * sig, size_t * sizeof_sig</var><var></var>
<blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure

<p><var>sig</var>: a pointer where the signature part will be copied (may be null).

<p><var>sizeof_sig</var>: initially holds the size of <code>sig</code>

<p>This function will extract the signature field of a CRL.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. and a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_this_update</h4>

<p>

<div class="defun">
— Function: time_t gnutls_x509_crl_get_this_update (<var>gnutls_x509_crl_t crl</var><var></var>
<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p>This function will return the time this CRL was issued.

<p>Returns: when the CRL was issued, or (time_t)-1 on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_get_version</h4>

<p>

<div class="defun">
— Function: int gnutls_x509_crl_get_version (<var>gnutls_x509_crl_t crl</var><var></var>
<blockquote><p><var>crl</var>: should contain a <code>gnutls_x509_crl_t</code> structure

<p>This function will return the version of the specified CRL.

<p>Returns: The version number, or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_import</h4>

<p>

<div class="defun">
— Function: int gnutls_x509_crl_import (<var>gnutls_x509_crl_t crl, const gnutls_datum_t * data,
gnutls_x509_crt_fmt_t format</var>)<var><a name="index-gnutls_005fx509_005fcr1_005fimport-
353"></var>

<blockquote><p><var>crl</var>: The structure to store the parsed CRL.

<p><var>data</var>: The DER or PEM encoded CRL.

<p><var>format</var>: One of DER or PEM

<p>This function will convert the given DER or PEM encoded CRL
to the native <code>gnutls_x509_crl_t</code> format. The output will be stored in 'crl'.

<p>If the CRL is PEM encoded it should have a header of "X509 CRL".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a
negative error value.

</p></blockquote></div>

gnutls_x509_crl_init

<p>

<div class="defun">
— Function: int gnutls_x509_crl_init (<var>gnutls_x509_crl_t * crl</var>)<var><a name="index-
gnutls_005fx509_005fcr1_005finit-354"></var>

<blockquote><p><var>crl</var>: The structure to be initialized

<p>This function will initialize a CRL structure. CRL stands for
Certificate Revocation List. A revocation list usually contains
lists of certificate serial numbers that have been revoked by an
Authority. The revocation lists are always signed with the
authority's private key.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a
negative error value.

</p></blockquote></div>

gnutls_x509_crl_print

<p>

<div class="defun">
— Function: int gnutls_x509_crl_print (<var>gnutls_x509_crl_t crl,
gnutls_certificate_print_formats_t format, gnutls_datum_t * out</var>)<var><a name="index-
gnutls_005fx509_005fcr1_005fprint-355"></var>

<blockquote><p><var>crl</var>: The structure to be printed

<p><var>format</var>: Indicate the format to use

<p><var>out</var>: Newly allocated datum with zero terminated string.

<p>This function will pretty print a X.509 certificate revocation list, suitable for display to a human.

<p>The output <code>out</code> needs to be deallocate using <code>gnutls_free()</code>.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_crl_set_authority_key_id

<p>

<div class="defun">

— Function: int gnutls_x509_crl_set_authority_key_id (<var>gnutls_x509_crl_t crl, const void * id, size_t id_size</var><var></var>

<blockquote><p><var>crl</var>: a CRL of type <code>gnutls_x509_crl_t</code>

<p><var>id</var>: The key ID

<p><var>id_size</var>: Holds the size of the serial field.

<p>This function will set the CRL's authority key ID extension. Only the keyIdentifier field can be set with this function.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0

</p></blockquote></div>

gnutls_x509_crl_set_crt_serial

<p>

<div class="defun">

— Function: int gnutls_x509_crl_set_crt_serial (<var>gnutls_x509_crl_t crl, const void * serial, size_t serial_size, time_t revocation_time</var><var></var>

<blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure

<p><var>serial</var>: The revoked certificate's serial number

<p><var>serial_size</var>: Holds the size of the serial field.

<p><var>revocation_time</var>: The time this certificate was revoked

<p>This function will set a revoked certificate's serial number to the CRL.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_x509_crl_set_crt (<var>gnutls_x509_crl_t crl, gnutls_x509_crt_t crt, time_t revocation_time</var>)<var></var>
 <blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure <p><var>crt</var>: a certificate of type <code>gnutls_x509_crt_t</code> with the revoked certificate <p><var>revocation_time</var>: The time this certificate was revoked <p>This function will set a revoked certificate's serial number to the CRL. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_x509_crl_set_next_update (<var>gnutls_x509_crl_t crl, time_t exp_time</var>)<var></var>
 <blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure <p><var>exp_time</var>: The actual time <p>This function will set the time this CRL will be updated. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 516

<p>

<div class="defun">

— Function: int gnutls_x509_crl_set_number (<var>gnutls_x509_crl_t crl, const void * nr, size_t nr_size</var>)<var></var>

<blockquote><p><var>crl</var>: a CRL of type <code>gnutls_x509_crl_t</code>

<p><var>nr</var>: The CRL number

<p><var>nr_size</var>: Holds the size of the nr field.

<p>This function will set the CRL's number extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_set_this_update</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_set_this_update (<var>gnutls_x509_crl_t crl, time_t act_time</var>)<var></var>

<blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure

<p><var>act_time</var>: The actual time

<p>This function will set the time this CRL was issued.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crl_set_version</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crl_set_version (<var>gnutls_x509_crl_t crl, unsigned int version</var>)<var></var>

<blockquote><p><var>crl</var>: should contain a gnutls_x509_crl_t structure

<p><var>version</var>: holds the version number. For CRLv1 crls must be 1.

This function will set the version of the CRL. This must be one for CRL version 1, and so on. The CRLs generated by gnutls should have a version number of 2.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_sign2

[gnutls_005fx509_005fcr1_005fsign2](#)

Function: int `gnutls_x509_crl_sign2` (`gnutls_x509_crl_t` `crl`, `gnutls_x509_cert_t` `issuer`,

`gnutls_x509_privkey_t` `issuer_key`, `gnutls_digest_algorithm_t` `dig`, unsigned int `flags`)
[index-gnutls_005fx509_005fcr1_005fsign2-363](#)

`crl`: should contain a `gnutls_x509_crl_t` structure

`issuer`: is the certificate of the certificate issuer

`issuer_key`: holds the issuer's private key

`dig`: The message digest to use. `GNUTLS_DIG_SHA1` is the safe choice unless you know what you're doing.

`flags`: must be 0

This function will sign the CRL with the issuer's private key, and will copy the issuer's information into the CRL.

This must be the last step in a certificate CRL since all the previously set parameters are now signed.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_sign

[gnutls_005fx509_005fcr1_005fsign](#)

Function: int `gnutls_x509_crl_sign` (`gnutls_x509_crl_t` `crl`, `gnutls_x509_cert_t` `issuer`,

`gnutls_x509_privkey_t` `issuer_key`)
[index-gnutls_005fx509_005fcr1_005fsign-364](#)

`crl`: should contain a `gnutls_x509_crl_t` structure

<p><var>issuer</var>: is the certificate of the certificate issuer

<p><var>issuer_key</var>: holds the issuer's private key

<p>This function is the same as `gnutls_x509_crl_sign2()` with no flags, and SHA1 as the hash algorithm.

<p>Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_crl_verify

<p>

<div class="defun">

— Function: int `gnutls_x509_crl_verify` (`gnutls_x509_crl_t` crl, const `gnutls_x509_crt_t` * CA_list, int CA_list_length, unsigned int flags, unsigned int * verify)

<p><var>cr1</var>: is the crl to be verified

<p><var>CA_list</var>: is a certificate list that is considered to be trusted one

<p><var>CA_list_length</var>: holds the number of CA certificates in CA_list

<p><var>flags</var>: Flags that may be used to change the verification algorithm. Use OR of the `gnutls_certificate_verify_flags` enumerations.

<p><var>verify</var>: will hold the crl verification output.

<p>This function will try to verify the given crl and return its status. See `gnutls_x509_crt_list_verify()` for a detailed description of return values.

<p>Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_crq_deinit

<p>

<div class="defun">

— Function: void `gnutls_x509_crq_deinit` (`gnutls_x509_crq_t` crq)

<p><var>crq</var>: The structure to be initialized

<p>This function will deinitialize a CRL structure.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_export</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_export (<var>gnutls_x509_crq_t crq, gnutls_x509_cert_fmt_t format, void * output_data, size_t * output_data_size</var>)<var></var>

<blockquote><p><var>crq</var>: Holds the request

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>output_data</var>: will contain a certificate request PEM or DER encoded

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will export the certificate request to a PKCS10

<p>If the buffer provided is not long enough to hold the output, then GNUTLS_E_SHORT_MEMORY_BUFFER will be returned and *output_data_size will be updated.

<p>If the structure is PEM encoded, it will have a header of "BEGIN NEW CERTIFICATE REQUEST".

<p>Return value: In case of failure a negative value will be returned, and 0 on success.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_attribute_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_attribute_by_oid (<var>gnutls_x509_crq_t crq, const char * oid, int indx, void * buf, size_t * sizeof_buf</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>indx</var>: In case multiple same OIDs exist in the attribute list, this specifies which to send. Use zero to get the first one.

<p><var>buf</var>: a pointer to a structure to hold the attribute data (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p>This function will return the attribute in the certificate request specified by the given Object ID. The attribute will be DER encoded.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_attribute_data</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_attribute_data (<var>gnutls_x509_crq_t cert, int indx, void * data, size_t * sizeof_data</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>indx</var>: Specifies which attribute OID to send. Use zero to get the first one.

<p><var>data</var>: a pointer to a structure to hold the data (may be null)

<p><var>sizeof_data</var>: initially holds the size of <code>oid</code>

<p>This function will return the requested attribute data in the certificate request. The attribute data will be stored as a string in the provided buffer.

<p>Use <code>gnutls_x509_crq_get_attribute_info</code> to extract the OID. Use <code>gnutls_x509_crq_get_attribute_by_oid</code> instead, if you want to get data indexed by the attribute OID rather than sequence.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error. If your have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_attribute_info</h4>

<p>

<div class="defun">

— Function: int **gnutls_x509_crq_get_attribute_info** (<var>gnutls_x509_crq_t cert, int indx, void * oid, size_t * sizeof_oid</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>indx</var>: Specifies which attribute OID to send. Use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the OID

<p><var>sizeof_oid</var>: initially holds the maximum size of <code>oid</code>, on return holds actual size of <code>oid</code>.

<p>This function will return the requested attribute OID in the certificate, and the critical flag for it. The attribute OID will be stored as a string in the provided buffer. Use <code>gnutls_x509_crq_get_attribute_data()</code> to extract the data.

<p>If the buffer provided is not long enough to hold the output, then *<code>sizeof_oid</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error. If you have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Since: 2.8.0</p></div>

gnutls_x509_crq_get_basic_constraints

<p>

<div class="defun">

— Function: int **gnutls_x509_crq_get_basic_constraints** (<var>gnutls_x509_crq_t cert, unsigned int * critical, int * ca, int * pathlen</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>critical</var>: will be non zero if the extension is marked as critical

<p><var>ca</var>: pointer to output integer indicating CA status, may be NULL, value is 1 if the certificate CA flag is set, 0 otherwise.

<p><var>pathlen</var>: pointer to output integer indicating path length (may be NULL), non-negative values indicate a present pathLenConstraint field and the actual value, -1 indicate that the field is absent.

<p>This function will read the certificate's basic constraints, and return the certificates CA status. It reads the basicConstraints X.509 extension (2.5.29.19).

<p>Return value: If the certificate is a CA a positive value will be returned, or zero if the certificate does not have CA flag set. A negative value may be returned in case of errors. If the certificate does not contain the basicConstraints extension <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Since: 2.8.0</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_x509_crq_get_challenge_password (<var>gnutls_x509_crq_t crq, char * pass, size_t * sizeof_pass</var>)<var></var>
<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>pass</var>: will hold a null terminated password

<p><var>sizeof_pass</var>: Initially holds the size of <code>pass</code>.

<p>This function will return the challenge password in the request.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_x509_crq_get_dn_by_oid (<var>gnutls_x509_crq_t crq, const char * oid, int indx, unsigned int raw_flag, void * buf, size_t * sizeof_buf</var>)<var></var>
<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>indx</var>: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get the first one.

<p><var>raw_flag</var>: If non zero returns the raw DER data of the DN part.

<p><var>buf</var>: a pointer to a structure to hold the name (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p>This function will extract the part of the name of the Certificate request subject, specified by the given OID. The output will be encoded as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

<p>Some helper macros with popular OIDs can be found in gnutls/x509.h. If raw flag is zero, this function will only return known OIDs as text. Other OIDs will be DER encoded, as described in RFC2253 – in hex format with a '#' prefix. You can check about known OIDs using <code>gnutls_x509_dn_oid_known()</code>.

<p>If <code>buf</code> is null then only the size will be filled.

<p>Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf will be updated with the required size. On success 0 is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_dn_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_dn_oid (<var>gnutls_x509_crq_t crq, int indx, void * oid, size_t * sizeof_oid</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>indx</var>: Specifies which DN OID to send. Use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the name (may be null)

<p><var>sizeof_oid</var>: initially holds the size of <code>oid</code>

<p>This function will extract the requested OID of the name of the Certificate request subject, specified by the given index.

<p>If oid is null then only the size will be filled.

<p>Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_oid will be updated with

the required size. On success 0 is returned.

gnutls_x509_crq_get_dn

– Function: int **gnutls_x509_crq_get_dn** (`gnutls_x509_crq_t crq, char * buf, size_t * sizeof_buf`)
`crq`: should contain a `gnutls_x509_crq_t` structure

`buf`: a pointer to a structure to hold the name (may be null)

`sizeof_buf`: initially holds the size of `buf`

This function will copy the name of the Certificate request subject in the provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If `buf` is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `*sizeof_buf` will be updated with the required size. On success 0 is returned.

gnutls_x509_crq_get_extension_by_oid

– Function: int **gnutls_x509_crq_get_extension_by_oid** (`gnutls_x509_crq_t cert, const char * oid, int indx, void * buf, size_t * sizeof_buf, unsigned int * critical`)
`cert`: should contain a `gnutls_x509_crq_t` structure

`oid`: holds an Object Identified in null terminated string

`indx`: In case multiple same OIDs exist in the extensions, this specifies which to send. Use zero to get the first one.

`buf`: a pointer to a structure to hold the name (may be null)

`sizeof_buf`: initially holds the size of `buf`

`critical`: will be non zero if the extension is marked as critical

This function will return the extension specified by the OID in the certificate. The extensions will be returned as binary data DER encoded, in the provided buffer.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If the certificate does not contain the specified extension `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crq_get_extension_data

`gnutls_x509_crq_get_extension_data`

`gnutls_x509_crq_get_extension_data`

Function: `int gnutls_x509_crq_get_extension_data(gnutls_x509_crq_t cert, int indx, void * data, size_t * sizeof_data)` (`gnutls_x509_crq_t cert`, `int indx`, `void * data`, `size_t * sizeof_data`)
`index-gnutls_x509_crq_get_extension_data-377`
`cert`: should contain a `gnutls_x509_crq_t` structure

`indx`: Specifies which extension OID to send. Use zero to get the first one.

`data`: a pointer to a structure to hold the data (may be null)

`sizeof_data`: initially holds the size of `oid`

This function will return the requested extension data in the certificate. The extension data will be stored as a string in the provided buffer.

Use `gnutls_x509_crq_get_extension_info()` to extract the OID and critical flag. Use `gnutls_x509_crq_get_extension_by_oid()` instead, if you want to get data indexed by the extension OID rather than sequence.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If your have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crq_get_extension_info

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_extension_info (<var>gnutls_x509_crq_t cert, int indx, void * oid, size_t * sizeof_oid, int * critical</var><var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send. Use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the OID

<p><var>sizeof_oid</var>: initially holds the maximum size of <code>oid</code>, on return holds actual size of <code>oid</code>.

<p><var>critical</var>: output variable with critical flag, may be NULL.

<p>This function will return the requested extension OID in the certificate, and the critical flag for it. The extension OID will be stored as a string in the provided buffer. Use <code>gnutls_x509_crq_get_extension_data()</code> to extract the data.

<p>If the buffer provided is not long enough to hold the output, then *<code>sizeof_oid</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative value in case of an error. If your have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_key_id (<var>gnutls_x509_crq_t crq, unsigned int flags, unsigned char * output_data, size_t * output_data_size</var><var></var>

<blockquote><p><var>crq</var>: Holds the certificate signing request

<p><var>flags</var>: should be 0 for now

<p><var>output_data</var>: will contain the key ID

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will return a unique ID the depends on the public key parameters. This ID can be used in checking whether a certificate corresponds to the given private key.

<p>If the buffer provided is not long enough to hold the output, then *output_data_size is updated and Gnutls_E_SHORT_MEMORY_BUFFER will be returned. The output will normally be a SHA-1 hash output, which is 20 bytes.

<p>Return value: In case of failure a negative value will be returned, and 0 on success.

<p>Since: 2.8.0</p></div>

gnutls_x509_crq_get_key_purpose_oid

<p>

<div class="defun">

— Function: int **gnutls_x509_crq_get_key_purpose_oid** (<var>gnutls_x509_crq_t cert, int indx, void * oid, size_t * sizeof_oid, unsigned int * critical</var><var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>indx</var>: This specifies which OID to return. Use zero to get the first one.

<p><var>oid</var>: a pointer to a buffer to hold the OID (may be null)

<p><var>sizeof_oid</var>: initially holds the size of <code>oid</code>

<p><var>critical</var>: output variable with critical flag, may be NULL.

<p>This function will extract the key purpose OIDs of the Certificate specified by the given index. These are stored in the Extended Key Usage extension (2.5.29.37). See the Gnutls_KP_* definitions for human readable names.

<p>If <code>oid</code> is null then only the size will be filled.

<p>Returns: <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if the provided buffer is not long enough, and in that case the *sizeof_oid will be updated with the required size. On success 0 is returned.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_key_rsa_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_key_rsa_raw (<var>gnutls_x509_crq_t crq, gnutls_datum_t * m, gnutls_datum_t * e</var>)<var></var>

<blockquote><p><var>crq</var>: Holds the certificate

<p><var>m</var>: will hold the modulus

<p><var>e</var>: will hold the public exponent

<p>This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_get_key_usage</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_key_usage (<var>gnutls_x509_crq_t cert, unsigned int * key_usage, unsigned int * critical</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>key_usage</var>: where the key usage bits will be stored

<p><var>critical</var>: will be non zero if the extension is marked as critical

<p>This function will return certificate's key usage, by reading the keyUsage X.509 extension (2.5.29.15). The key usage value will

<p>ORed values of the: <code>GNUTLS_KEY_DIGITAL_SIGNATURE</code>,
<code>GNUTLS_KEY_NON_REPUDIATION</code>,
<code>GNUTLS_KEY_KEY_ENCIPHERMENT</code>,
<code>GNUTLS_KEY_DATA_ENCIPHERMENT</code>,</p>

`GNUTLS_KEY_KEY_AGREEMENT`,
`GNUTLS_KEY_KEY_CERT_SIGN`, `GNUTLS_KEY_CRL_SIGN`,
`GNUTLS_KEY_ENCIPHER_ONLY`, `GNUTLS_KEY_DECIPHER_ONLY`.

Returns: the certificate key usage, or a negative value in case of parsing error. If the certificate does not contain the keyUsage extension `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crq_get_pk_algorithm

[gnutls_x509_crq_get_pk_algorithm](#)

`defun`

Function: int `gnutls_x509_crq_get_pk_algorithm` (`gnutls_x509_crq_t crq`, unsigned int * bits) [index-gnutls_x509_crq_get_pk_algorithm-383](#)
`crq`: should contain a `gnutls_x509_crq_t` structure

`bits`: if bits is non null it will hold the size of the parameters' in bits

This function will return the public key algorithm of a PKCS #10 certificate request.

If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

gnutls_x509_crq_get_subject_alt_name

[gnutls_x509_crq_get_subject_alt_name](#)

`defun`

Function: int `gnutls_x509_crq_get_subject_alt_name` (`gnutls_x509_crq_t cert`, unsigned int seq, void * ret, size_t * ret_size, unsigned int * ret_type, unsigned int * critical) [index-gnutls_x509_crq_get_subject_alt_name-384](#)
`cert`: should contain a `gnutls_x509_crq_t` structure

`seq`: specifies the sequence number of the alt name, 0 for the first one, 1 for the second etc.

<p><var>ret</var>: is the place where the alternative name will be copied to

<p><var>ret_size</var>: holds the size of ret.

<p><var>ret_type</var>: holds the <code>gnutls_x509_subject_alt_name_t</code> name type

<p><var>critical</var>: will be non zero if the extension is marked as critical
(may be null)

<p>This function will return the alternative names, contained in the given certificate. It is the same as <code>gnutls_x509_crq_get_subject_alt_name()</code> except for the fact that it will return the type of the alternative name in <code>ret_type</code> even if the function fails for some reason (i.e. the buffer provided is not enough).

<p>Returns: the alternative subject name type on success, one of the enumerated <code>gnutls_x509_subject_alt_name_t</code>. It will return <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if <code>ret_size</code> is not large enough to hold the value. In that case <code>ret_size</code> will be updated with the required size. If the certificate request does not have an Alternative name with the specified sequence number then <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> is returned.

<p>Since: 2.8.0
</p></blockquote></div>

gnutls_x509_crq_get_subject_alt_othername_oid

<p>

<div class="defun">

— Function: int gnutls_x509_crq_get_subject_alt_othername_oid (<var>gnutls_x509_crq_t cert, unsigned int seq, void * ret, size_t * ret_size</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>seq</var>: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

<p><var>ret</var>: is the place where the otherName OID will be copied to

<p><var>ret_size</var>: holds the size of ret.

<p>This function will extract the type OID of an otherName Subject Alternative Name, contained in the given certificate, and return the type as an enumerated element.

<p>This function is only useful if

`gnutls_x509_crq_get_subject_alt_name()` returned
`GNUTLS_SAN_OTHERNAME`.

Returns: the alternative subject name type on success, one of the enumerated `gnutls_x509_subject_alt_name_t`. For supported OIDs, it will return one of the virtual (`GNUTLS_SAN_OTHERNAME_*`) types, e.g. `GNUTLS_SAN_OTHERNAME_XMPP`, and `GNUTLS_SAN_OTHERNAME` for unknown OIDs. It will return `GNUTLS_E_SHORT_MEMORY_BUFFER` if `ret_size` is not large enough to hold the value. In that case `ret_size` will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number and with the `otherName` type then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` is returned.

Since: 2.8.0

gnutls_x509_crq_get_version

[gnutls_005fx509_005fcrq_005fget_005fversion](#)

`defun`

– Function: int `gnutls_x509_crq_get_version` (`gnutls_x509_crq_t crq`)
[index-gnutls_005fx509_005fcrq_005fget_005fversion-386](#)
`crq`: should contain a `gnutls_x509_crq_t` structure

This function will return the version of the specified Certificate request.

Returns: version of certificate request, or a negative value on error.

gnutls_x509_crq_import

[gnutls_005fx509_005fcrq_005fimport](#)

`defun`

– Function: int `gnutls_x509_crq_import` (`gnutls_x509_crq_t crq`, `const gnutls_datum_t * data`, `gnutls_x509 crt_fmt_t format`)
[index-gnutls_005fx509_005fcrq_005fimport-387](#)
`crq`: The structure to store the parsed certificate request.

`data`: The DER or PEM encoded certificate.

`format`: One of DER or PEM

This function will convert the given DER or PEM encoded Certificate

to the native `gnutls_x509_crq_t` format. The output will be stored in `cert`.

If the Certificate is PEM encoded it should have a header of "NEW CERTIFICATE REQUEST".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_init

[gnutls_005fx509_005fcrq_005finit](#)

– Function: int `gnutls_x509_crq_init` (`gnutls_x509_crq_t * crq`)
[index-gnutls_005fx509_005fcrq_005finit-388](#)

`crq`: The structure to be initialized

This function will initialize a PKCS10 certificate request structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_print

[gnutls_005fx509_005fcrq_005fprint](#)

– Function: int `gnutls_x509_crq_print` (`gnutls_x509_crq_t crq`,
`gnutls_certificate_print_formats_t format`, `gnutls_datum_t * out`)
[index-gnutls_005fx509_005fcrq_005fprint-389](#)

`crq`: The structure to be printed

`format`: Indicate the format to use

`out`: Newly allocated datum with zero terminated string.

This function will pretty print a certificate request, suitable for display to a human.

The output `out` needs to be deallocate using `gnutls_free()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

<h4 class="subheading">gnutls_x509_crq_set_attribute_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_attribute_by_oid (<var>gnutls_x509_crq_t crq, const char * oid, void * buf, size_t sizeof_buf</var><var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>buf</var>: a pointer to a structure that holds the attribute data

<p><var>sizeof_buf</var>: holds the size of <code>buf</code>

<p>This function will set the attribute in the certificate request specified by the given Object ID. The attribute must be be DER encoded.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_set_basic_constraints</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_basic_constraints (<var>gnutls_x509_crq_t crq, unsigned int ca, int pathLenConstraint</var><var></var>

<blockquote><p><var>crq</var>: a certificate of type <code>gnutls_x509_crq_t</code>

<p><var>ca</var>: true(1) or false(0). Depending on the Certificate authority status.

<p><var>pathLenConstraint</var>: non-negative values indicate maximum length of path, and negative values indicate that the pathLenConstraints field should not be present.

<p>This function will set the basicConstraints certificate extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_set_challenge_password</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_challenge_password (<var>gnutls_x509_crq_t crq, const char * pass</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>pass</var>: holds a null terminated password

<p>This function will set a challenge password to be used when revoking the request.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_set_dn_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_dn_by_oid (<var>gnutls_x509_crq_t crq, const char * oid, unsigned int raw_flag, const void * data, unsigned int sizeof_data</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>oid</var>: holds an Object Identifier in a null terminated string

<p><var>raw_flag</var>: must be 0, or 1 if the data are DER encoded

<p><var>data</var>: a pointer to the input data

<p><var>sizeof_data</var>: holds the size of <code>data</code>

<p>This function will set the part of the name of the Certificate request subject, specified by the given OID. The input string should be ASCII or UTF-8 encoded.

<p>Some helper macros with popular OIDs can be found in gnutls/x509.h. With this function you can only set the known OIDs. You can test for known OIDs using <code>gnutls_x509_dn_oid_known()</code>. For OIDs that are not known (by gnutls) you should properly DER encode your data, and call this function with raw_flag set.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_crq_set_key_purpose_oid

[gnutls_005fx509_005fcrq_005fset_005fkey_005fpurpose_005foid](#)

Function:

int **gnutls_x509_crq_set_key_purpose_oid** (`gnutls_x509_crq_t` cert, const void * oid, unsigned int critical) [index-gnutls_005fx509_005fcrq_005fset_005fkey_005fpurpose_005foid-394](#)
`cert`: a certificate of type `gnutls_x509_crq_t`

`oid`: a pointer to a null terminated string that holds the OID

`critical`: Whether this extension will be critical or not

This function will set the key purpose OIDs of the Certificate. These are stored in the Extended Key Usage extension (2.5.29.37) See the GNUTLS_KP_* definitions for human readable names.

Subsequent calls to this function will append OIDs to the OID list.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_crq_set_key_rsa_raw

[gnutls_005fx509_005fcrq_005fset_005fkey_005frsa_005fraw](#)

Function:

int **gnutls_x509_crq_set_key_rsa_raw** (`gnutls_x509_crq_t` crq, const `gnutls_datum_t` * m, const `gnutls_datum_t` * e) [index-gnutls_005fx509_005fcrq_005fset_005fkey_005frsa_005fraw-395](#)
`crq`: should contain a `gnutls_x509_crq_t` structure

`m`: holds the modulus

`e`: holds the public exponent

This function will set the public parameters from the given private key to the request. Only RSA keys are currently supported.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.6.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_set_key_usage</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_key_usage (<var>gnutls_x509_crq_t crq, unsigned int usage</var>)<var></var>
<blockquote><p><var>crq</var>: a certificate of type <code>gnutls_x509_crq_t</code>

<p><var>usage</var>: an ORed sequence of the GNUTLS_KEY_* elements.

<p>This function will set the keyUsage certificate extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_set_key</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_key (<var>gnutls_x509_crq_t crq, gnutls_x509_privkey_t key</var>)<var></var>
<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>key</var>: holds a private key

<p>This function will set the public parameters from the given private key to the request. Only RSA keys are currently supported.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_set_subject_alt_name</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_subject_alt_name (<var>gnutls_x509_crq_t crq, gnutls_x509_subject_alt_name_t nt, const void * data, unsigned int data_size, unsigned int flags</var>)<var></var>
<blockquote><p><var>crq</var>: a certificate of type <code>gnutls_x509_crq_t</code>

<p><var>nt</var>: is one of the <code>gnutls_x509_subject_alt_name_t</code> enumerations

<p><var>data</var>: The data to be set

<p><var>data_size</var>: The size of data to be set

<p><var>flags</var>: <code>GNUTLS_FSAN_SET</code> to clear previous data or <code>GNUTLS_FSAN_APPEND</code> to append.

<p>This function will set the subject alternative name certificate extension. It can set the following types:

<p>&GNUTLS_SAN_DNSNAME: as a text string

<p>&GNUTLS_SAN_RFC822NAME: as a text string

<p>&GNUTLS_SAN_URI: as a text string

<p>&GNUTLS_SAN_IPADDRESS: as a binary IP address (4 or 16 bytes)

<p>Other values can be set as binary values with the proper DER encoding.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0

</p></blockquote></div>

gnutls_x509_crq_set_version</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_set_version (<var>gnutls_x509_crq_t crq, unsigned int version</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>version</var>: holds the version number. For v1 Requests must be 1.

<p>This function will set the version of the certificate request. For version 1 requests this must be one.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_crq_sign2</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_sign2 (<var>gnutls_x509_crq_t crq, gnutls_x509_privkey_t key, gnutls_digest_algorithm_t dig, unsigned int flags</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a <code>gnutls_x509_crq_t</code> structure

<p><var>key</var>: holds a private key

<p><var>dig</var>: The message digest to use, <code>GNUTLS_DIG_SHA1</code> is the safe choice unless you know what you're doing.

<p><var>flags</var>: must be 0

<p>This function will sign the certificate request with a private key. This must be the same key as the one used in <code>gnutls_x509 crt_set_key()</code> since a certificate request is self signed.

<p>This must be the last step in a certificate request generation since all the previously set parameters are now signed.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error. <code>GNUTLS_E_ASN1_VALUE_NOT_FOUND</code> is returned if you didn't set all information in the certificate request (e.g., the version using <code>gnutls_x509_crq_set_version()</code>).

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crq_sign</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crq_sign (<var>gnutls_x509_crq_t crq, gnutls_x509_privkey_t key</var>)<var></var>

<blockquote><p><var>crq</var>: should contain a gnutls_x509_crq_t structure

<p><var>key</var>: holds a private key

<p>This function is the same a <code>gnutls_x509_crq_sign2()</code> with no flags, and SHA1 as the hash algorithm.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_check_hostname</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_check_hostname (<var>gnutls_x509_crt_t cert, const char * hostname</var>)<var></var>
<blockquote><p><var>cert</var>: should contain an gnutls_x509_crt_t structure

<p><var>hostname</var>: A null terminated string that contains a DNS name

<p>This function will check if the given certificate's subject matches the given hostname. This is a basic implementation of the matching described in RFC2818 (HTTPS), which takes into account wildcards, and the DNSName/IPAddress subject alternative name PKIX extension.

<p>Returns: non zero for a successful match, and zero on failure.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_check_issuer</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_check_issuer (<var>gnutls_x509_crt_t cert, gnutls_x509_crt_t issuer</var>)<var></var>
<blockquote><p><var>cert</var>: is the certificate to be checked

<p><var>issuer</var>: is the certificate of a possible issuer

<p>This function will check if the given certificate was issued by the given issuer.

<p>Returns: It will return true (1) if the given certificate is issued by the given issuer, and false (0) if not. A negative value is returned in case of an error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_check_revocation</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_check_revocation (<var>gnutls_x509_crt_t cert, const gnutls_x509_crl_t * crl_list, int crl_list_length</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crt_t</code> structure

<p><var>crl_list</var>: should contain a list of gnutls_x509_crl_t structures

<p><var>crl_list_length</var>: the length of the crl_list

<p>This function will return check if the given certificate is revoked. It is assumed that the CRLs have been verified before.

<p>Returns: 0 if the certificate is NOT revoked, and 1 if it is. A negative value is returned on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_cpy_crl_dist_points</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_cpy_crl_dist_points (<var>gnutls_x509_crt_t dst, gnutls_x509_crt_t src</var>)<var><a name="index-

gnutls_005fx509_005fcrt_005fcpy_005fcrl_005fdist_005fpoints-405"></var>

<blockquote><p><var>dst</var>: a certificate of type <code>gnutls_x509_crt_t</code>

<p><var>src</var>: the certificate where the dist points will be copied from

<p>This function will copy the CRL distribution points certificate extension, from the source to the destination certificate.

This may be useful to copy from a CA certificate to issued ones.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_deinit</h4>

<p>

<div class="defun">

— Function: void gnutls_x509_crt_deinit (<var>gnutls_x509_crt_t cert</var>)<var></var>

<blockquote><p><var>cert</var>: The structure to be initialized

<p>This function will deinitialize a CRL structure.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_export</h4>

<p>

<div class="defun">

— Function: int **gnutls_x509_cert_export** (<var>gnutls_x509_cert_t cert, gnutls_x509_cert_fmt_t format, void * output_data, size_t * output_data_size</var><var></var>
<blockquote><p><var>cert</var>: Holds the certificate

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>output_data</var>: will contain a certificate PEM or DER encoded

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will export the certificate to DER or PEM format.

<p>If the buffer provided is not long enough to hold the output, then *output_data_size is updated and GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN CERTIFICATE".

<p>Return value: In case of failure a negative value will be returned, and 0 on success.

</p></blockquote></div>

gnutls_x509_cert_get_activation_time

<p>

<div class="defun">

— Function: time_t **gnutls_x509_cert_get_activation_time** (<var>gnutls_x509_cert_t cert</var><var></var>

<blockquote><p><var>cert</var>: should contain a `gnutls_x509_cert_t` structure

<p>This function will return the time this Certificate was or will be activated.

<p>Returns: activation time, or (time_t)-1 on error.

</p></blockquote></div>

gnutls_x509_cert_get_authority_key_id

<p>

<div class="defun">

— Function: int **gnutls_x509_cert_get_authority_key_id** (<var>gnutls_x509_cert_t cert, void * ret, size_t * ret_size, unsigned int * critical</var><var><a name="index-

gnutls_005fx509_005fcr_t_005fget_005fauthority_005fkey_005fid-409"></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cr_t</code> structure

<p><var>ret</var>: The place where the identifier will be copied

<p><var>ret_size</var>: Holds the size of the result field.

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the X.509v3 certificate authority's key identifier. This is obtained by the X.509 Authority Key identifier extension field (2.5.29.35). Note that this function only returns the keyIdentifier field of the extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.and a negative value in case of an error.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_x509_cr_t_get_basic_constraints (<var>gnutls_x509_cr_t cert, unsigned int * critical, int * ca, int * pathlen</var>)<var></var>
 <blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cr_t</code> structure <p><var>critical</var>: will be non zero if the extension is marked as critical <p><var>ca</var>: pointer to output integer indicating CA status, may be NULL, value is 1 if the certificate CA flag is set, 0 otherwise. <p><var>pathlen</var>: pointer to output integer indicating path length (may be NULL), non-negative values indicate a present pathLenConstraint field and the actual value, -1 indicate that the field is absent. <p>This function will read the certificate's basic constraints, and return the certificates CA status. It reads the basicConstraints X.509 extension (2.5.29.19). <p>Return value: If the certificate is a CA a positive value will be returned, or zero if the certificate does not have CA flag set. A negative value may be returned in case of errors. If the certificate does not contain the basicConstraints extension GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE will be returned. </p></blockquote></div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 543

<h4 class="subheading">gnutls_x509_cert_get_ca_status</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_ca_status (<var>gnutls_x509_cert_t cert, unsigned int * critical</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>critical</var>: will be non zero if the extension is marked as critical

<p>This function will return certificates CA status, by reading the basicConstraints X.509 extension (2.5.29.19). If the certificate is a CA a positive value will be returned, or zero if the certificate does not have CA flag set.

<p>Use <code>gnutls_x509_cert_get_basic_constraints()</code> if you want to read the pathLenConstraint field too.

<p>Returns: A negative value may be returned in case of parsing error. If the certificate does not contain the basicConstraints extension <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_crl_dist_points</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_crl_dist_points (<var>gnutls_x509_cert_t cert, unsigned int seq, void * ret, size_t * ret_size, unsigned int * reason_flags, unsigned int * critical</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>seq</var>: specifies the sequence number of the distribution point (0 for the first one, 1 for the second etc.)

<p><var>ret</var>: is the place where the distribution point will be copied to

<p><var>ret_size</var>: holds the size of ret.

<p><var>reason_flags</var>: Revocation reasons flags.

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the CRL distribution points (2.5.29.31), contained in the given certificate.

`reason_flags` should be an ORed sequence of GNUTLS_CRL_REASON_UNUSED, GNUTLS_CRL_REASON_KEY_COMPROMISE, GNUTLS_CRL_REASON_CA_COMPROMISE, GNUTLS_CRL_REASON_AFFILIATION_CHANGED, GNUTLS_CRL_REASON_SUPERSEDED, GNUTLS_CRL_REASON_CESSATION_OF_OPERATION, GNUTLS_CRL_REASON_CERTIFICATE_HOLD, GNUTLS_CRL_REASON_PRIVILEGE_WITHDRAWN, GNUTLS_CRL_REASON_AA_COMPROMISE, or zero for all possible reasons.

This is specified in X509v3 Certificate Extensions. GNUTLS will return the distribution point type, or a negative error code on error.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` and updates `ret_size` if `ret_size` is not enough to hold the distribution point, or the type of the distribution point if everything was ok. The type is one of the enumerated `gnutls_x509_subject_alt_name_t`. If the certificate does not have an Alternative name with the specified sequence number then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` is returned.

gnutls_x509_cert_get_dn_by_oid

[gnutls_005fx509_005fcrt_005fget_005fdn_005fby_005foid](#)

`defun`

Function: int `gnutls_x509_cert_get_dn_by_oid` (`gnutls_x509_cert_t cert`, `const char * oid`, `int indx`, `unsigned int raw_flag`, `void * buf`, `size_t * sizeof_buf`)

`cert`: should contain a `gnutls_x509_cert_t` structure

`oid`: holds an Object Identified in null terminated string

`indx`: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get the first one.

`raw_flag`: If non zero returns the raw DER data of the DN part.

`buf`: a pointer where the DN part will be copied (may be null).

`sizeof_buf`: initially holds the size of `buf`

This function will extract the part of the name of the Certificate subject specified by the given OID. The output, if the raw flag is not used, will be encoded as described in RFC2253. Thus a string that is

ASCII or UTF-8 encoded, depending on the certificate data.

Some helper macros with popular OIDs can be found in `gnutls/x509.h`. If raw flag is zero, this function will only return known OIDs as text. Other OIDs will be DER encoded, as described in RFC2253 – in hex format with a `\#` prefix. You can check about known OIDs using `gnutls_x509_dn_oid_known()`.

If `buf` is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `*sizeof_buf` will be updated with the required size. On success 0 is returned.

`gnutls_x509_cert_get_dn_oid`

— Function: int `gnutls_x509_cert_get_dn_oid` (`gnutls_x509_cert_t cert`, int `indx`, void * `oid`, size_t * `sizeof_oid`)
`index-gnutls_005fx509_005fcrt_005fget_005fdn_005foid-414`

`cert`: should contain a `gnutls_x509_cert_t` structure

`indx`: This specifies which OID to return. Use zero to get the first one.

`oid`: a pointer to a buffer to hold the OID (may be null)

`sizeof_oid`: initially holds the size of `oid`

This function will extract the OIDs of the name of the Certificate subject specified by the given index.

If `oid` is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `*sizeof_oid` will be updated with the required size. On success 0 is returned.

`gnutls_x509_cert_get_dn`

— Function: int `gnutls_x509_cert_get_dn` (`gnutls_x509_cert_t cert`, char * `buf`, size_t * `sizeof_buf`)
`index-gnutls_005fx509_005fcrt_005fget_005fdn-415`

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>buf</var>: a pointer to a structure to hold the name (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p>This function will copy the name of the Certificate in the provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

<p>If <code>buf</code> is null then only the size will be filled.

<p>Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf will be updated with the required size. On success 0 is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_expiration_time</h4>

<p>

<div class="defun">

— Function: time_t gnutls_x509_cert_get_expiration_time (<var>gnutls_x509_cert_t cert</var><var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p>This function will return the time this Certificate was or will be expired.

<p>Returns: expiration time, or (time_t)-1 on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_extension_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_extension_by_oid (<var>gnutls_x509_cert_t cert, const char * oid, int indx, void * buf, size_t * sizeof_buf, unsigned int * critical</var><var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>indx</var>: In case multiple same OIDs exist in the extensions, this specifies which to send. Use zero to get the first one.

<p><var>buf</var>: a pointer to a structure to hold the name (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p><var>critical</var>: will be non zero if the extension is marked as critical

<p>This function will return the extension specified by the OID in the certificate. The extensions will be returned as binary data DER encoded, in the provided buffer.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned. If the certificate does not contain the specified extension <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.
</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_extension_data</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_extension_data (<var>gnutls_x509_cert_t cert, int indx, void * data, size_t * sizeof_data</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send. Use zero to get the first one.

<p><var>data</var>: a pointer to a structure to hold the data (may be null)

<p><var>sizeof_data</var>: initially holds the size of <code>oid</code>

<p>This function will return the requested extension data in the certificate. The extension data will be stored as a string in the provided buffer.

<p>Use <code>gnutls_x509_cert_get_extension_info()</code> to extract the OID and critical flag. Use <code>gnutls_x509_cert_get_extension_by_oid()</code> instead, if you want to get data indexed by the extension OID rather than sequence.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned. If you have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.
</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_get_extension_info</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_get_extension_info (<var>gnutls_x509_crt_t cert, int indx, void * oid, size_t * sizeof_oid, int * critical</var><var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crt_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send. Use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the OID

<p><var>sizeof_oid</var>: initially holds the maximum size of <code>oid</code>, on return holds actual size of <code>oid</code>.

<p><var>critical</var>: output variable with critical flag, may be NULL.

<p>This function will return the requested extension OID in the certificate, and the critical flag for it. The extension OID will be stored as a string in the provided buffer. Use <code>gnutls_x509_crt_get_extension_data()</code> to extract the data.

<p>If the buffer provided is not long enough to hold the output, then *<code>sizeof_oid</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned. If you have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_get_extension_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_get_extension_oid (<var>gnutls_x509_crt_t cert, int indx, void * oid, size_t * sizeof_oid</var><var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crt_t</code> structure

<p><var>indx</var>: Specifies which extension OID to send. Use zero to get the first one.

<p><var>oid</var>: a pointer to a structure to hold the OID (may be null)

<p><var>sizeof_oid</var>: initially holds the size of <code>oid</code>

<p>This function will return the requested extension OID in the certificate.
The extension OID will be stored as a string in the provided buffer.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned. If you have reached the last extension available <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_fingerprint</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_fingerprint (<var>gnutls_x509_cert_t cert, gnutls_digest_algorithm_t algo, void * buf, size_t * sizeof_buf</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>algo</var>: is a digest algorithm

<p><var>buf</var>: a pointer to a structure to hold the fingerprint (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p>This function will calculate and copy the certificate's fingerprint in the provided buffer.

<p>If the buffer is null then only the size will be filled.

<p>Returns: <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if the provided buffer is not long enough, and in that case the *sizeof_buf will be updated with the required size. On success 0 is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_issuer_dn_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_issuer_dn_by_oid (<var>gnutls_x509_cert_t cert, const char * oid, int indx, unsigned int raw_flag, void * buf, size_t * sizeof_buf</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>indx</var>: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get the first one.

<p><var>raw_flag</var>: If non zero returns the raw DER data of the DN part.

<p><var>buf</var>: a pointer to a structure to hold the name (may be null)

<p><var>sizeof_buf</var>: initially holds the size of <code>buf</code>

<p>This function will extract the part of the name of the Certificate issuer specified by the given OID. The output, if the raw flag is not used, will be encoded as described in RFC2253. Thus a string that is ASCII or UTF-8 encoded, depending on the certificate data.

<p>Some helper macros with popular OIDs can be found in gnutls/x509.h
If raw flag is zero, this function will only return known OIDs as text. Other OIDs will be DER encoded, as described in RFC2253 – in hex format with a '#' prefix. You can check about known OIDs using <code>gnutls_x509_dn_oid_known()</code>.

<p>If <code>buf</code> is null then only the size will be filled.

<p>Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf will be updated with the required size. On success 0 is returned.

</p></blockquote></div>

gnutls_x509_cert_get_issuer_dn_oid

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_issuer_dn_oid (<var>gnutls_x509_cert_t cert, int indx, void * oid, size_t * sizeof_oid</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>indx</var>: This specifies which OID to return. Use zero to get the first one.

<p><var>oid</var>: a pointer to a buffer to hold the OID (may be null)

<p><var>sizeof_oid</var>: initially holds the size of <code>oid</code>

<p>This function will extract the OIDs of the name of the Certificate issuer specified by the given index.

If `oid` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the `*sizeof_oid` will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_issuer_dn

[gnutls_005fx509_005fcrt_005fget_005fissuer_005fdn](#)

Function:

int **gnutls_x509_cert_get_issuer_dn** (`gnutls_x509_cert_t cert`, `char * buf`, `size_t * sizeof_buf`)
[index-gnutls_005fx509_005fcrt_005fget_005fissuer_005fdn-424](#)

`cert`: should contain a `gnutls_x509_cert_t` structure

`buf`: a pointer to a structure to hold the name (may be null)

`sizeof_buf`: initially holds the size of `buf`

This function will copy the name of the Certificate issuer in the provided buffer. The name will be in the form "C=xxx,O=yyy,CN=zzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If `buf` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the `*sizeof_buf` will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_issuer

[gnutls_005fx509_005fcrt_005fget_005fissuer](#)

Function:

int **gnutls_x509_cert_get_issuer** (`gnutls_x509_cert_t cert`, `gnutls_x509_dn_t * dn`)
[index-gnutls_005fx509_005fcrt_005fget_005fissuer-425](#)

`cert`: should contain a `gnutls_x509_cert_t` structure

`dn`: output variable with pointer to opaque DN

Return the Certificate's Issuer DN as an opaque data type. You may use `gnutls_x509_dn_get_rdn_ava()` to decode the DN.

Note that `dn` should be treated as constant. Because points

into the `cert` object, you may not deallocate `cert` and continue to access `dn`.

Returns: Returns 0 on success, or an error code.

gnutls_x509_cert_get_key_id

[gnutls_005fx509_005fcrt_005fget_005fkey_005fid](#)

Function: int `gnutls_x509_cert_get_key_id` (`gnutls_x509_cert_t` cert, unsigned int flags,

unsigned char * output_data, size_t * output_data_size) [index-gnutls_005fx509_005fcrt_005fget_005fkey_005fid-426](#)

`cert`: Holds the certificate

`flags`: should be 0 for now

`output_data`: will contain the key ID

`output_data_size`: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will return a unique ID that depends on the public key parameters. This ID can be used in checking whether a certificate corresponds to the given private key.

If the buffer provided is not long enough to hold the output, then `output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned. The output will normally be a SHA-1 hash output, which is 20 bytes.

Return value: In case of failure a negative value will be returned, and 0 on success.

gnutls_x509_cert_get_key_purpose_oid

[gnutls_005fx509_005fcrt_005fget_005fkey_005fpurpose_005foid](#)

Function: int `gnutls_x509_cert_get_key_purpose_oid` (`gnutls_x509_cert_t` cert, int indx, void

* oid, size_t * sizeof_oid, unsigned int * critical) [index-gnutls_005fx509_005fcrt_005fget_005fkey_005fpurpose_005foid-427](#)

`cert`: should contain a `gnutls_x509_cert_t` structure

`indx`: This specifies which OID to return. Use zero to get the first one.

<p><var>oid</var>: a pointer to a buffer to hold the OID (may be null)

<p><var>sizeof_oid</var>: initially holds the size of <code>oid</code>

<p><var>critical</var>: output flag to indicate criticality of extension

<p>This function will extract the key purpose OIDs of the Certificate specified by the given index. These are stored in the Extended Key Usage extension (2.5.29.37) See the GNUTLS_KP_* definitions for human readable names.

<p>If <code>oid</code> is null then only the size will be filled.

<p>Returns: <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if the provided buffer is

not long enough, and in that case the *sizeof_oid will be updated with the required size. On success 0 is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_key_usage</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_key_usage (<var>gnutls_x509_cert_t cert, unsigned int * key_usage, unsigned int * critical</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>key_usage</var>: where the key usage bits will be stored

<p><var>critical</var>: will be non zero if the extension is marked as critical

<p>This function will return certificate's key usage, by reading the keyUsage X.509 extension (2.5.29.15). The key usage value will

<p>ORed values of the: <code>GNUTLS_KEY_DIGITAL_SIGNATURE</code>, <code>GNUTLS_KEY_NON_REPUDIATION</code>, <code>GNUTLS_KEY_KEY_ENCIPHERMENT</code>, <code>GNUTLS_KEY_DATA_ENCIPHERMENT</code>, <code>GNUTLS_KEY_KEY_AGREEMENT</code>, <code>GNUTLS_KEY_KEY_CERT_SIGN</code>, <code>GNUTLS_KEY_CRL_SIGN</code>, <code>GNUTLS_KEY_ENCIPHER_ONLY</code>, <code>GNUTLS_KEY_DECIPHER_ONLY</code>.

<p>Returns: the certificate key usage, or a negative value in case of parsing error. If the certificate does not contain the keyUsage extension <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> will be returned.

</p></blockquote></div>

gnutls_x509_cert_get_pk_algorithm

[gnutls_005fx509_005fcrt_005fget_005fpk_005falgorithm](#)

Function: int `gnutls_x509_cert_get_pk_algorithm` (`gnutls_x509_cert_t` cert, unsigned int * bits)

`gnutls_x509_cert_t` cert: should contain a `gnutls_x509_cert_t` structure

`bits`: if bits is non null it will hold the size of the parameters' in bits

This function will return the public key algorithm of an X.509 certificate.

If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

gnutls_x509_cert_get_pk_dsa_raw

[gnutls_005fx509_005fcrt_005fget_005fpk_005fdsa_005fraw](#)

Function: int `gnutls_x509_cert_get_pk_dsa_raw` (`gnutls_x509_cert_t` cert, `gnutls_datum_t` * p, `gnutls_datum_t` * q, `gnutls_datum_t` * g, `gnutls_datum_t` * y)

`cert`: Holds the certificate

`p`: will hold the p

`q`: will hold the q

`g`: will hold the g

`y`: will hold the y

This function will export the DSA public key's parameters found in the given certificate. The new parameters will be allocated using `gnutls_malloc()` and will be stored in the appropriate datum.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

gnutls_x509_cert_get_pk_rsa_raw

[gnutls_005fx509_005fcrt_005fget_005fpk_005frsa_005fraw](#)

Function: int `gnutls_x509_cert_get_pk_rsa_raw` (`gnutls_x509_cert_t` cert, `gnutls_datum_t` * m,

`gnutls_datum_t` * e) `index-gnutls_005fx509_005fcrt_005fget_005fpk_005frsa_005fraw-431`

`cert`: Holds the certificate

`m`: will hold the modulus

`e`: will hold the public exponent

This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using `gnutls_malloc` and will be stored in the appropriate datum.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

gnutls_x509_cert_get_proxy

[gnutls_005fx509_005fcrt_005fget_005fproxy](#)

Function: int `gnutls_x509_cert_get_proxy` (`gnutls_x509_cert_t` cert, unsigned int * critical, int

* pathlen, char ** policyLanguage, char ** policy, size_t * sizeof_policy) `index-gnutls_005fx509_005fcrt_005fget_005fproxy-432`

`cert`: should contain a `gnutls_x509_cert_t` structure

`critical`: will be non zero if the extension is marked as critical

`pathlen`: pointer to output integer indicating path length (may be NULL), non-negative values indicate a present `pCPathLenConstraint` field and the actual value, -1 indicate that the field is absent.

`policyLanguage`: output variable with OID of policy language

`policy`: output variable with policy data

`sizeof_policy`: output variable size of policy data

This function will get information from a proxy certificate. It reads the ProxyCertInfo X.509 extension (1.3.6.1.5.5.7.1.14).

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned,

otherwise an error code is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_raw_dn</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_raw_dn (<var>gnutls_x509_cert_t cert, gnutls_datum_t * start</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>start</var>: will hold the starting point of the DN

<p>This function will return a pointer to the DER encoded DN structure and the length.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_raw_issuer_dn</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_raw_issuer_dn (<var>gnutls_x509_cert_t cert, gnutls_datum_t * start</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>start</var>: will hold the starting point of the DN

<p>This function will return a pointer to the DER encoded DN structure and the length.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_serial</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_serial (<var>gnutls_x509_cert_t cert, void * result, size_t * result_size</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>result</var>: The place where the serial number will be copied

<p><var>result_size</var>: Holds the size of the result field.

<p>This function will return the X.509 certificate's serial number.

This is obtained by the X509 Certificate serialNumber field. Serial is not always a 32 or 64bit number. Some CAs use large serial numbers, thus it may be wise to handle it as something opaque.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.and a negative value in case of an error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_signature_algorithm</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_signature_algorithm (<var>gnutls_x509_cert_t cert</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p>This function will return a value of the <code>gnutls_sign_algorithm_t</code> enumeration that is the signature algorithm.

<p>Returns: a <code>gnutls_sign_algorithm_t</code> value, or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_signature</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_signature (<var>gnutls_x509_cert_t cert, char * sig, size_t * sizeof_sig</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>sig</var>: a pointer where the signature part will be copied (may be null).

<p><var>sizeof_sig</var>: initially holds the size of <code>sig</code>

<p>This function will extract the signature field of a certificate.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a

negative error value. and a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_get_subject_alt_name2</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_get_subject_alt_name2 (<var>gnutls_x509_crt_t cert, unsigned int seq, void * ret, size_t * ret_size, unsigned int * ret_type, unsigned int * critical</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crt_t</code> structure

<p><var>seq</var>: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

<p><var>ret</var>: is the place where the alternative name will be copied to

<p><var>ret_size</var>: holds the size of ret.

<p><var>ret_type</var>: holds the type of the alternative name (one of gnutls_x509_subject_alt_name_t).

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the alternative names, contained in the given certificate. It is the same as

<code>gnutls_x509_crt_get_subject_alt_name()</code> except for the fact that it will return the type of the alternative name in <code>ret_type</code> even if the function fails for some reason (i.e. the buffer provided is not enough).

<p>Returns: the alternative subject name type on success, one of the enumerated <code>gnutls_x509_subject_alt_name_t</code>. It will return <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if <code>ret_size</code> is not large enough to hold the value. In that case <code>ret_size</code> will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number then <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> is returned.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_crt_get_subject_alt_name</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_crt_get_subject_alt_name (<var>gnutls_x509_crt_t cert, unsigned int seq, void * ret, size_t * ret_size, unsigned int * critical</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_crt_t</code> structure

<p><var>seq</var>: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

<p><var>ret</var>: is the place where the alternative name will be copied to

<p><var>ret_size</var>: holds the size of ret.

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the alternative names, contained in the given certificate.

<p>This is specified in X509v3 Certificate Extensions. GNUTLS will return the Alternative name (2.5.29.17), or a negative error code.

<p>When the SAN type is otherName, it will extract the data in the otherName's value field, and `GNUTLS_SAN_OTHERNAME` is returned. You may use `gnutls_x509_cert_get_subject_alt_othername_oid()` to get the corresponding OID and the "virtual" SAN types (e.g., `GNUTLS_SAN_OTHERNAME_XMPP`).

<p>If an otherName OID is known, the data will be decoded. Otherwise the returned data will be DER encoded, and you will have to decode it yourself. Currently, only the RFC 3920 id-on-xmppAddr SAN is recognized.

<p>Returns: the alternative subject name type on success, one of the enumerated `gnutls_x509_subject_alt_name_t`. It will return `GNUTLS_E_SHORT_MEMORY_BUFFER` if `ret_size` is not large enough to hold the value. In that case `ret_size` will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` is returned.

gnutls_x509_cert_get_subject_alt_othername_oid

<p>

<div class="defun">

— Function: int **gnutls_x509_cert_get_subject_alt_othername_oid** (<var>gnutls_x509_cert_t cert, unsigned int seq, void * ret, size_t * ret_size</var><var></var>
<blockquote><p><var>cert</var>: should contain a `gnutls_x509_cert_t` structure

<p><var>seq</var>: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

<p><var>ret</var>: is the place where the otherName OID will be copied to

<p><var>ret_size</var>: holds the size of ret.

<p>This function will extract the type OID of an otherName Subject Alternative Name, contained in the given certificate, and return the type as an enumerated element.

<p>This function is only useful if <code>gnutls_x509_cert_get_subject_alt_name()</code> returned <code>GNUTLS_SAN_OTHERNAME</code>.

<p>Returns: the alternative subject name type on success, one of the enumerated gnutls_x509_subject_alt_name_t. For supported OIDs, it will return one of the virtual (GNUTLS_SAN_OTHERNAME_*) types, e.g. <code>GNUTLS_SAN_OTHERNAME_XMPP</code>, and <code>GNUTLS_SAN_OTHERNAME</code> for unknown OIDs. It will return <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> if <code>ret_size</code> is not large enough to hold the value. In that case <code>ret_size</code> will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number and with the otherName type then <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code> is returned.

gnutls_x509_cert_get_subject_key_id

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_subject_key_id (<var>gnutls_x509_cert_t cert, void * ret, size_t * ret_size, unsigned int * critical</var>)<var></var>

<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>ret</var>: The place where the identifier will be copied

<p><var>ret_size</var>: Holds the size of the result field.

<p><var>critical</var>: will be non zero if the extension is marked as critical (may be null)

<p>This function will return the X.509v3 certificate's subject key identifier. This is obtained by the X.509 Subject Key identifier extension field (2.5.29.14).

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. and a negative value in case of an error.

<h4 class="subheading">gnutls_x509_cert_get_subject</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_subject (<var>gnutls_x509_cert_t cert, gnutls_x509_dn_t * dn</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p><var>dn</var>: output variable with pointer to opaque DN.

<p>Return the Certificate's Subject DN as an opaque data type. You may use <code>gnutls_x509_dn_get_rdn_ava()</code> to decode the DN.

<p>Note that <code>dn</code> should be treated as constant. Because points into the <code>cert</code> object, you may not deallocate <code>cert</code> and continue to access <code>dn</code>.

<p>Returns: Returns 0 on success, or an error code.</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_verify_algorithm</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_verify_algorithm (<var>gnutls_x509_cert_t cert, const gnutls_datum_t * signature, gnutls_digest_algorithm_t * hash</var>)<var></var>
<blockquote><p><var>cert</var>: Holds the certificate

<p><var>signature</var>: contains the signature

<p><var>hash</var>: The result of the call with the hash algorithm used for signature

<p>This function will read the certificate and the signed data to determine the hash algorithm used to generate the signature.

<p>Returns: the 0 if the hash algorithm is found. A negative value is returned on error.

<p>Since: 2.8.0</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_get_version</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_get_version (<var>gnutls_x509_cert_t cert</var>)<var></var>
<blockquote><p><var>cert</var>: should contain a <code>gnutls_x509_cert_t</code> structure

<p>This function will return the version of the specified Certificate.

<p>Returns: version of certificate, or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_import</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_import (<var>gnutls_x509_cert_t cert, const gnutls_datum_t * data, gnutls_x509_cert_fmt_t format</var>)<var></var>

<blockquote><p><var>cert</var>: The structure to store the parsed certificate.

<p><var>data</var>: The DER or PEM encoded certificate.

<p><var>format</var>: One of DER or PEM

<p>This function will convert the given DER or PEM encoded Certificate to the native gnutls_x509_cert_t format. The output will be stored in <code>cert</code>.

<p>If the Certificate is PEM encoded it should have a header of "X509 CERTIFICATE", or "CERTIFICATE".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_init</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_init (<var>gnutls_x509_cert_t * cert</var>)<var></var>

<blockquote><p><var>cert</var>: The structure to be initialized

<p>This function will initialize an X.509 certificate structure.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_cert_list_import

[gnutls_005fx509_005fcrt_005flist_005fimport](#)

Function:

int **gnutls_x509_cert_list_import** (gnutls_x509_cert_t * certs, unsigned int * cert_max, const gnutls_datum_t * data, gnutls_x509_cert_fmt_t format, unsigned int flags)

certs: The structures to store the parsed certificate. Must not be initialized.

cert_max: Initially must hold the maximum number of certs. It will be updated with the number of certs available.

data: The PEM encoded certificate.

format: One of DER or PEM.

flags: must be zero or an OR'd sequence of `gnutls_certificate_import_flags`.

This function will convert the given PEM encoded certificate list to the native `gnutls_x509_cert_t` format. The output will be stored in `certs`. They will be automatically initialized.

If the Certificate is PEM encoded it should have a header of "X509 CERTIFICATE", or "CERTIFICATE".

Returns: the number of certificates read or a negative error value.

gnutls_x509_cert_list_verify

[gnutls_005fx509_005fcrt_005flist_005fverify](#)

Function:

int **gnutls_x509_cert_list_verify** (const gnutls_x509_cert_t * cert_list, int cert_list_length, const gnutls_x509_cert_t * CA_list, int CA_list_length, const gnutls_x509_crl_t * CRL_list, int CRL_list_length, unsigned int flags, unsigned int * verify)

cert_list: is the certificate list to be verified

cert_list_length: holds the number of certificate in `cert_list`

CA_list: is the CA list which will be used in verification

CA_list_length: holds the number of CA certificate in `CA_list`

CRL_list: holds a list of CRLs.

<p><var>CRL_list_length</var>: the length of CRL list.

<p><var>flags</var>: Flags that may be used to change the verification algorithm. Use OR of the gnutls_certificate_verify_flags enumerations.

<p><var>verify</var>: will hold the certificate verification output.

<p>This function will try to verify the given certificate list and return its status. If no flags are specified (0), this function will use the basicConstraints (2.5.29.19) PKIX extension. This means that only a certificate authority is allowed to sign a certificate.

<p>You must also check the peer's name in order to check if the verified certificate belongs to the actual peer.

<p>The certificate verification output will be put in <code>verify</code> and will be one or more of the gnutls_certificate_status_t enumerated elements bitwise or'd. For a more detailed verification status use <code>gnutls_x509_cert_verify()</code> per list element.

<p>GNUTLS_CERT_INVALID: the certificate chain is not valid.

<p>GNUTLS_CERT_REVOKED: a certificate in the chain has been revoked.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value and a negative value in case of an error.

</p></blockquote></div>

gnutls_x509_cert_print

<p>

<div class="defun">

— Function: int gnutls_x509_cert_print (<var>gnutls_x509_cert_t cert, gnutls_certificate_print_formats_t format, gnutls_datum_t * out</var>)<var></var>

<blockquote><p><var>cert</var>: The structure to be printed

<p><var>format</var>: Indicate the format to use

<p><var>out</var>: Newly allocated datum with zero terminated string.

<p>This function will pretty print a X.509 certificate, suitable for display to a human.

<p>If the format is <code>GNUTLS_CERT_PRINT_FULL</code> then all fields of the certificate will be output, on multiple lines. The

`GNUTLS_CRT_PRINT_ONELINE` format will generate one line with some selected fields, which is useful for logging purposes.

The output `out` needs to be deallocate using `gnutls_free()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_activation_time

[gnutls_x509_cert_set_activation_time](#)

`defun`

Function: int `gnutls_x509_cert_set_activation_time` (`gnutls_x509_cert_t cert, time_t act_time`)
[index-gnutls_x509_cert_set_activation_time-450](#)

`cert`: a certificate of type `gnutls_x509_cert_t`

`act_time`: The actual time

This function will set the time this Certificate was or will be activated.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_authority_key_id

[gnutls_x509_cert_set_authority_key_id](#)

`defun`

Function: int `gnutls_x509_cert_set_authority_key_id` (`gnutls_x509_cert_t cert, const void * id, size_t id_size`)
[index-gnutls_x509_cert_set_authority_key_id-451](#)

`cert`: a certificate of type `gnutls_x509_cert_t`

`id`: The key ID

`id_size`: Holds the size of the serial field.

This function will set the X.509 certificate's authority key ID extension. Only the keyIdentifier field can be set with this function.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509 crt set basic constraints

[gnutls_005fx509_005fcrt_005fset_005fbasic_005fconstraints](#)

`<div class="defun">`

`— Function: int gnutls_x509 crt set basic constraints (<var>gnutls_x509 crt_t crt, unsigned int ca, int pathLenConstraint</var><var></var>
`

`<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509 crt_t</code>`

`<p><var>ca</var>: true(1) or false(0). Depending on the Certificate authority status.`

`<p><var>pathLenConstraint</var>: non-negative values indicate maximum length of path, and negative values indicate that the pathLenConstraints field should not be present.`

`<p>This function will set the basicConstraints certificate extension.`

`<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.`

`</p></blockquote></div>`

gnutls_x509 crt set ca status

[gnutls_005fx509_005fcrt_005fset_005fca_005fstatus](#)

`<div class="defun">`

`— Function: int gnutls_x509 crt set ca status (<var>gnutls_x509 crt_t crt, unsigned int ca</var><var></var>
`

`<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509 crt_t</code>`

`<p><var>ca</var>: true(1) or false(0). Depending on the Certificate authority status.`

`<p>This function will set the basicConstraints certificate extension.`

`Use <code>gnutls_x509 crt set basic constraints()</code> if you want to control the pathLenConstraint field too.`

`<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.`

`</p></blockquote></div>`

gnutls_x509 crt set crl dist points2

[gnutls_005fx509_005fcrt_005fset_005fcrl_005fdist_005fpoints2](#)

`<div class="defun">`

`— Function: int gnutls_x509 crt set crl dist points2 (<var>gnutls_x509 crt_t crt,`

gnutls_x509_subject_alt_name_t type, const void * data, unsigned int data_size, unsigned int reason_flags

<code>gnutls_x509 crt_t</code>

type: is one of the gnutls_x509_subject_alt_name_t enumerations

data: The data to be set

data_size: The data size

reason_flags: revocation reasons

This function will set the CRL distribution points certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.6.0

gnutls_x509_crt_set_crl_dist_points

[gnutls_005fx509_005fcrt_005fset_005fcrl_005fdist_005fpoints](#)

<div class="defun">

Function: int **gnutls_x509_crt_set_crl_dist_points** (gnutls_x509_crt_t crt, gnutls_x509_subject_alt_name_t type, const void * data_string, unsigned int reason_flags)

<code>gnutls_x509 crt_t</code>

type: is one of the gnutls_x509_subject_alt_name_t enumerations

data_string: The data to be set

reason_flags: revocation reasons

This function will set the CRL distribution points certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crt_set_crq_extensions

[gnutls_005fx509_005fcrt_005fset_005fcrq_005fextensions](#)

<div class="defun">

— Function: int **gnutls_x509_cert_set_crq_extensions** (<var>gnutls_x509_cert_t crt, gnutls_x509_crq_t crq</var>)<var></var>

<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>crq</var>: holds a certificate request

<p>This function will set extensions from the given request to the certificate.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.8.0
</p></blockquote></div>

gnutls_x509_cert_set_crq

<p>

<div class="defun">

— Function: int **gnutls_x509_cert_set_crq** (<var>gnutls_x509_cert_t crt, gnutls_x509_crq_t crq</var>)<var></var>

<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>crq</var>: holds a certificate request

<p>This function will set the name and public parameters as well as the extensions from the given certificate request to the certificate. Only RSA keys are currently supported.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_cert_set_dn_by_oid

<p>

<div class="defun">

— Function: int **gnutls_x509_cert_set_dn_by_oid** (<var>gnutls_x509_cert_t crt, const char * oid, unsigned int raw_flag, const void * name, unsigned int sizeof_name</var>)<var></var>

<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>oid</var>: holds an Object Identifier in a null terminated string

<p><var>raw_flag</var>: must be 0, or 1 if the data are DER encoded

<p><var>name</var>: a pointer to the name

<p><var>sizeof_name</var>: holds the size of <code>name</code>

<p>This function will set the part of the name of the Certificate subject, specified by the given OID. The input string should be ASCII or UTF-8 encoded.

<p>Some helper macros with popular OIDs can be found in gnutls/x509.h. With this function you can only set the known OIDs. You can test for known OIDs using <code>gnutls_x509_dn_oid_known()</code>. For OIDs that are not known (by gnutls) you should properly DER encode your data, and call this function with <code>raw_flag</code> set.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_cert_set_expiration_time

<p>

<div class="defun">

— Function: int gnutls_x509_cert_set_expiration_time (<var>gnutls_x509_cert_t cert, time_t exp_time</var>)<var></var>

<blockquote><p><var>cert</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>exp_time</var>: The actual time

<p>This function will set the time this Certificate will expire.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_cert_set_extension_by_oid

<p>

<div class="defun">

— Function: int gnutls_x509_cert_set_extension_by_oid (<var>gnutls_x509_cert_t cert, const char * oid, const void * buf, size_t sizeof_buf, unsigned int critical</var>)<var></var>

<blockquote><p><var>cert</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>oid</var>: holds an Object Identified in null terminated string

<p><var>buf</var>: a pointer to a DER encoded data

<p><var>sizeof_buf</var>: holds the size of <code>buf</code>

<p><var>critical</var>: should be non zero if the extension is to be marked as critical

<p>This function will set an the extension, by the specified OID, in the certificate. The extension data should be binary data DER encoded.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.and a negative value in case of an error.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_set_issuer_dn_by_oid</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_set_issuer_dn_by_oid (<var>gnutls_x509_cert_t crt, const char * oid, unsigned int raw_flag, const void * name, unsigned int sizeof_name</var>)<var></var>

<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>oid</var>: holds an Object Identifier in a null terminated string

<p><var>raw_flag</var>: must be 0, or 1 if the data are DER encoded

<p><var>name</var>: a pointer to the name

<p><var>sizeof_name</var>: holds the size of <code>name</code>

<p>This function will set the part of the name of the Certificate issuer, specified by the given OID. The input string should be ASCII or UTF-8 encoded.

<p>Some helper macros with popular OIDs can be found in gnutls/x509.h With this function you can only set the known OIDs. You can test for known OIDs using <code>gnutls_x509_dn_oid_known</code>. For OIDs that are not known (by gnutls) you should properly DER encode your data, and call this function with <code>raw_flag</code> set.

<p>Normally you do not need to call this function, since the signing operation will copy the signer's name as the issuer of the certificate.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a

negative error value.

gnutls_x509_cert_set_key_purpose_oid

– Function: int **gnutls_x509_cert_set_key_purpose_oid** (`gnutls_x509_cert_t cert, const void * oid, unsigned int critical`)

`cert`: a certificate of type `gnutls_x509_cert_t`

`oid`: a pointer to a null terminated string that holds the OID

`critical`: Whether this extension will be critical or not

This function will set the key purpose OIDs of the Certificate.

These are stored in the Extended Key Usage extension (2.5.29.37)

See the `GNUTLS_KP_*` definitions for human readable names.

Subsequent calls to this function will append OIDs to the OID list.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_x509_cert_set_key_usage

– Function: int **gnutls_x509_cert_set_key_usage** (`gnutls_x509_cert_t cert, unsigned int usage`)

`cert`: a certificate of type `gnutls_x509_cert_t`

`usage`: an ORed sequence of the `GNUTLS_KEY_*` elements.

This function will set the keyUsage certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_key

<div class="defun">

— Function: int gnutls_x509_cert_set_key (<var>gnutls_x509_cert_t cert, gnutls_x509_privkey_t key</var>)<var></var>
<blockquote><p><var>cert</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>key</var>: holds a private key

<p>This function will set the public parameters from the given private key to the certificate. Only RSA keys are currently supported.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_set_proxy_dn</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_set_proxy_dn (<var>gnutls_x509_cert_t cert, gnutls_x509_cert_t eecrt, unsigned int raw_flag, const void * name, unsigned int sizeof_name</var>)<var></var>
<blockquote><p><var>cert</var>: a gnutls_x509_cert_t structure with the new proxy cert

<p><var>eecrt</var>: the end entity certificate that will be issuing the proxy

<p><var>raw_flag</var>: must be 0, or 1 if the CN is DER encoded

<p><var>name</var>: a pointer to the CN name, may be NULL (but MUST then be added later)

<p><var>sizeof_name</var>: holds the size of <code>name</code>

<p>This function will set the subject in <code>cert</code> to the end entity's <code>eecrt</code> subject name, and add a single Common Name component <code>name</code> of size <code>sizeof_name</code>. This corresponds to the required proxy certificate naming style. Note that if <code>name</code> is <code>NULL</code>, you MUST set it later by using <code>gnutls_x509_cert_set_dn_by_oid</code> or similar.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_cert_set_proxy</h4>

<p>

<div class="defun">

— Function: int **gnutls_x509_cert_set_proxy** (`gnutls_x509_cert_t cert`, int pathLenConstraint, const char * policyLanguage, const char * policy, size_t sizeof_policy)
`gnutls_x509_cert_set_proxy-466`
`cert`: a certificate of type `gnutls_x509_cert_t`

`pathLenConstraint`: non-negative values indicate maximum length of path, and negative values indicate that the pathLenConstraints field should not be present.

`policyLanguage`: OID describing the language of `policy`.

`policy`: opaque byte array with policy language, can be `NULL`

`sizeof_policy`: size of `policy`.

This function will set the proxyCertInfo extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_serial

`gnutls_x509_cert_set_serial`

— Function: int **gnutls_x509_cert_set_serial** (`gnutls_x509_cert_t cert`, const void * serial, size_t serial_size)
`gnutls_x509_cert_set_serial-467`
`cert`: a certificate of type `gnutls_x509_cert_t`

`serial`: The serial number

`serial_size`: Holds the size of the serial field.

This function will set the X.509 certificate's serial number. Serial is not always a 32 or 64bit number. Some CAs use large serial numbers, thus it may be wise to handle it as something opaque.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_subject_alt_name

`gnutls_x509_cert_set_subject_alt_name`

— Function: int **gnutls_x509 crt_set_subject_alt_name** (<var>gnutls_x509 crt_t crt, gnutls_x509_subject_alt_name_t type, const void * data, unsigned int data_size, unsigned int flags</var>)<var></var>
<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509 crt_t</code>

<p><var>type</var>: is one of the gnutls_x509_subject_alt_name_t enumerations

<p><var>data</var>: The data to be set

<p><var>data_size</var>: The size of data to be set

<p><var>flags</var>: GNUTLS_FSAN_SET to clear previous data or GNUTLS_FSAN_APPEND to append.

<p>This function will set the subject alternative name certificate extension. It can set the following types:

<p>&GNUTLS_SAN_DNSNAME: as a text string

<p>&GNUTLS_SAN_RFC822NAME: as a text string

<p>&GNUTLS_SAN_URI: as a text string

<p>&GNUTLS_SAN_IPADDRESS: as a binary IP address (4 or 16 bytes)

<p>Other values can be set as binary values with the proper DER encoding.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

<p>Since: 2.6.0</p></blockquote></div>

gnutls_x509 crt_set_subject_alternative_name

<p>

<div class="defun">

— Function: int **gnutls_x509 crt_set_subject_alternative_name** (<var>gnutls_x509 crt_t crt, gnutls_x509_subject_alt_name_t type, const char * data_string</var>)<var></var>
<blockquote><p><var>crt</var>: a certificate of type <code>gnutls_x509 crt_t</code>

<p><var>type</var>: is one of the gnutls_x509_subject_alt_name_t enumerations

<p><var>data_string</var>: The data to be set, a zero terminated string

<p>This function will set the subject alternative name certificate extension. This function assumes that data can be expressed as a null

terminated string.

<p>The name of the function is unfortunate since it is inconsistent with <code>gnutls_x509_cert_get_subject_alt_name()</code>.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_cert_set_subject_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_set_subject_key_id (<var>gnutls_x509_cert_t cert, const void * id, size_t id_size</var>)<var></var>

<blockquote><p><var>cert</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>id</var>: The key ID

<p><var>id_size</var>: Holds the size of the serial field.

<p>This function will set the X.509 certificate's subject key ID extension.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

gnutls_x509_cert_set_version</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_cert_set_version (<var>gnutls_x509_cert_t cert, unsigned int version</var>)<var></var>

<blockquote><p><var>cert</var>: a certificate of type <code>gnutls_x509_cert_t</code>

<p><var>version</var>: holds the version number. For X.509v1 certificates must be 1.

<p>This function will set the version of the certificate. This must be one for X.509 version 1, and so on. Plain certificates without extensions must have version set to one.

<p>To create well-formed certificates, you must specify version 3 if you use any certificate extensions. Extensions are created by functions such as <code>gnutls_x509_cert_set_subject_alt_name()</code>

or `gnutls_x509 crt_set_key_usage()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509 crt_sign2

[gnutls_005fx509_005fcrt_005fsign2](#)

Function: int `gnutls_x509 crt_sign2` (`gnutls_x509 crt_t crt`, `gnutls_x509 crt_t issuer`,

`gnutls_x509_privkey_t issuer_key`, `gnutls_digest_algorithm_t dig`, unsigned int flags) [index-gnutls_005fx509_005fcrt_005fsign2-472](#)

`crt`: a certificate of type `gnutls_x509 crt_t`

`issuer`: is the certificate of the certificate issuer

`issuer_key`: holds the issuer's private key

`dig`: The message digest to use, `GNUTLS_DIG_SHA1` is a safe choice

`flags`: must be 0

This function will sign the certificate with the issuer's private key, and will copy the issuer's information into the certificate.

This must be the last step in a certificate generation since all the previously set parameters are now signed.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509 crt_sign

[gnutls_005fx509_005fcrt_005fsign](#)

Function: int `gnutls_x509 crt_sign` (`gnutls_x509 crt_t crt`, `gnutls_x509 crt_t issuer`,

`gnutls_x509_privkey_t issuer_key`) [index-gnutls_005fx509_005fcrt_005fsign-473](#)

`crt`: a certificate of type `gnutls_x509 crt_t`

`issuer`: is the certificate of the certificate issuer

`issuer_key`: holds the issuer's private key

<p>This function is the same as `gnutls_x509 crt_sign2()` with no flags, and SHA1 as the hash algorithm.

<p>Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509 crt_verify_data</h4>

<p>

<div class="defun">

— Function: int `gnutls_x509 crt_verify_data` (`gnutls_x509 crt_t crt`, unsigned int flags, const `gnutls_datum_t * data`, const `gnutls_datum_t * signature`)<var></var>

<blockquote><p><var>crt</var>: Holds the certificate

<p><var>flags</var>: should be 0 for now

<p><var>data</var>: holds the data to be signed

<p><var>signature</var>: contains the signature

<p>This function will verify the given signed data, using the parameters from the certificate.

<p>Returns: In case of a verification failure 0 is returned, and 1 on success.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509 crt_verify_hash</h4>

<p>

<div class="defun">

— Function: int `gnutls_x509 crt_verify_hash` (`gnutls_x509 crt_t crt`, unsigned int flags, const `gnutls_datum_t * hash`, const `gnutls_datum_t * signature`)<var></var>

<blockquote><p><var>crt</var>: Holds the certificate

<p><var>flags</var>: should be 0 for now

<p><var>hash</var>: holds the hash digest to be verified

<p><var>signature</var>: contains the signature

<p>This function will verify the given signed digest, using the parameters from the certificate.

Returns: In case of a verification failure 0 is returned, and 1 on success.

gnutls_x509_cert_verify

[gnutls_005fx509_005fcrt_005fverify](#)

Function:

int **gnutls_x509_cert_verify** (gnutls_x509_cert_t cert, const gnutls_x509_cert_t * CA_list, int CA_list_length, unsigned int flags, unsigned int * verify)

cert: is the certificate to be verified

CA_list: is one certificate that is considered to be trusted one

CA_list_length: holds the number of CA certificate in CA_list

flags: Flags that may be used to change the verification algorithm. Use OR of the gnutls_certificate_verify_flags enumerations.

verify: will hold the certificate verification output.

This function will try to verify the given certificate and return its status. The verification output in this functions cannot be GNUTLS_CERT_NOT_VALID.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value and a negative value in case of an error.

gnutls_x509_dn_deinit

[gnutls_005fx509_005fdn_005fdeinit](#)

Function:

void **gnutls_x509_dn_deinit** (gnutls_x509_dn_t dn)

dn: a DN opaque object pointer.

This function deallocates the DN object as returned by `gnutls_x509_dn_import()`.

Since: 2.4.0

gnutls_x509_dn_export

<p>

<div class="defun">

— Function: int gnutls_x509_dn_export (<var>gnutls_x509_dn_t dn, gnutls_x509 crt_fmt_t format, void * output_data, size_t * output_data_size</var>)<var></var>

<blockquote><p><var>dn</var>: Holds the opaque DN object

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>output_data</var>: will contain a DN PEM or DER encoded

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will export the DN to DER or PEM format.

<p>If the buffer provided is not long enough to hold the output, then *<code>output_data_size</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN NAME".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_dn_get_rdn_ava</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_dn_get_rdn_ava (<var>gnutls_x509_dn_t dn, int irdn, int iava, gnutls_x509_ava_st * ava</var>)<var></var>

<blockquote><p><var>dn</var>: input variable with opaque DN pointer

<p><var>irdn</var>: index of RDN

<p><var>iava</var>: index of AVA.

<p><var>ava</var>: Pointer to structure which will hold output information.

<p>Get pointers to data within the DN.

<p>Note that <code>ava</code> will contain pointers into the <code>dn</code> structure, so you should not modify any data or deallocate it. Note also that the DN

in turn points into the original certificate structure, and thus you may not deallocate the certificate and continue to access `dn`.

Returns: Returns 0 on success, or an error code.

gnutls_x509_dn_import

[gnutls_005fx509_005fdn_005fimport](#)

Function:

int `gnutls_x509_dn_import` (`gnutls_x509_dn_t dn`, const `gnutls_datum_t * data`)

`dn`: the structure that will hold the imported DN

`data`: should contain a DER encoded RDN sequence

This function parses an RDN sequence and stores the result to a `gnutls_x509_dn_t` structure. The structure must have been initialized with `gnutls_x509_dn_init()`. You may use `gnutls_x509_dn_get_rdn_ava()` to decode the DN.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.4.0

gnutls_x509_dn_init

[gnutls_005fx509_005fdn_005finit](#)

Function:

int `gnutls_x509_dn_init` (`gnutls_x509_dn_t * dn`)

`dn`: the object to be initialized

This function initializes a `gnutls_x509_dn_t` structure.

The object returned must be deallocated using `gnutls_x509_dn_deinit()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.4.0

gnutls_x509_dn_oid_known

[gnutls_005fx509_005fdn_005foid_005fknown](#)

Function: int `gnutls_x509_dn_oid_known` (`const char * oid`)

`—` `gnutls_x509_dn_oid_known` (`const char * oid`) ````

`oid`: holds an Object Identifier in a null terminated string

This function will inform about known DN OIDs. This is useful since functions like `gnutls_x509 crt_set_dn_by_oid()` use the information on known OIDs to properly encode their input. Object Identifiers that are not known are not encoded by these functions, and their input is stored directly into the ASN.1 structure. In that case of unknown OIDs, you have the responsibility of DER encoding your data.

Returns: 1 on known OIDs and 0 otherwise.

gnutls_x509_privkey_cpy

[gnutls_005fx509_005fprivkey_005fcpy](#)

Function: int `gnutls_x509_privkey_cpy` (`gnutls_x509_privkey_t dst`, `gnutls_x509_privkey_t src`)

`—` `gnutls_x509_privkey_cpy` (`gnutls_x509_privkey_t dst`, `gnutls_x509_privkey_t src`) ````

`dst`: The destination key, which should be initialized.

`src`: The source key

This function will copy a private key from source to destination key.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_deinit

[gnutls_005fx509_005fprivkey_005fdeinit](#)

Function: void `gnutls_x509_privkey_deinit` (`gnutls_x509_privkey_t key`)

`—` `gnutls_x509_privkey_deinit` (`gnutls_x509_privkey_t key`) ````

`key`: The structure to be initialized

This function will deinitialize a private key structure.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_export_dsa_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_export_dsa_raw (<var>gnutls_x509_privkey_t key, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * g, gnutls_datum_t * y, gnutls_datum_t * x</var>)<var></var>
<blockquote><p><var>key</var>: a structure that holds the DSA parameters

<p><var>p</var>: will hold the p

<p><var>q</var>: will hold the q

<p><var>g</var>: will hold the g

<p><var>y</var>: will hold the y

<p><var>x</var>: will hold the x

<p>This function will export the DSA private key's parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_export_pkcs8</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_export_pkcs8 (<var>gnutls_x509_privkey_t key, gnutls_x509_crt_fmt_t format, const char * password, unsigned int flags, void * output_data, size_t * output_data_size</var>)<var></var>

<blockquote><p><var>key</var>: Holds the key

<p><var>format</var>: the format of output params. One of PEM or DER.

<p><var>password</var>: the password that will be used to encrypt the key.

<p><var>flags</var>: an ORed sequence of gnutls_pkcs_encrypt_flags_t

<p><var>output_data</var>: will contain a private key PEM or DER encoded

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will export the private key to a PKCS8 structure. Both RSA and DSA keys can be exported. For DSA keys we use PKCS <code>11</code> definitions. If the flags do not specify the encryption cipher, then the default 3DES (PBES2) will be used.

<p>The <code>password</code> can be either ASCII or UTF-8 in the default PBES2 encryption schemas, or ASCII for the PKCS12 schemas.

<p>If the buffer provided is not long enough to hold the output, then *output_data_size is updated and GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

<p>If the structure is PEM encoded, it will have a header of "BEGIN ENCRYPTED PRIVATE KEY" or "BEGIN PRIVATE KEY" if encryption is not used.

<p>Return value: In case of failure a negative value will be returned, and 0 on success.

</p></blockquote></div>

gnutls_x509_privkey_export_rsa_raw

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_export_rsa_raw (<var>gnutls_x509_privkey_t key, gnutls_datum_t * m, gnutls_datum_t * e, gnutls_datum_t * d, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * u</var>)<var></var>

<blockquote><p><var>key</var>: a structure that holds the rsa parameters

<p><var>m</var>: will hold the modulus

<p><var>e</var>: will hold the public exponent

<p><var>d</var>: will hold the private exponent

<p><var>p</var>: will hold the first prime (p)

<p><var>q</var>: will hold the second prime (q)

<p><var>u</var>: will hold the coefficient

<p>This function will export the RSA private key's parameters found

in the given structure. The new parameters will be allocated using `gnutls_malloc()` and will be stored in the appropriate datum.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_export

Function: int `gnutls_x509_privkey_export` (`gnutls_x509_privkey_t` key, `gnutls_x509_crt_fmt_t` format, void * output_data, size_t * output_data_size) `index-gnutls_005fx509_005fprivkey_005fexport-488`

`key`: Holds the key

`format`: the format of output params. One of PEM or DER.

`output_data`: will contain a private key PEM or DER encoded

`output_data_size`: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the private key to a PKCS1 structure for RSA keys, or an integer sequence for DSA keys. The DSA keys are in the same format with the parameters used by openssl.

If the buffer provided is not long enough to hold the output, then *`output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN RSA PRIVATE KEY".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_fix

Function: int `gnutls_x509_privkey_fix` (`gnutls_x509_privkey_t` key) `index-gnutls_005fx509_005fprivkey_005ffix-489`

`key`: Holds the key

<p>This function will recalculate the secondary parameters in a key.
In RSA keys, this can be the coefficient and exponent 1,2.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_generate</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_generate (<var>gnutls_x509_privkey_t key, gnutls_pk_algorithm_t algo, unsigned int bits, unsigned int flags</var><var></var>

<blockquote><p><var>key</var>: should contain a <code>gnutls_x509_privkey_t</code> structure

<p><var>algo</var>: is one of RSA or DSA.

<p><var>bits</var>: the size of the modulus

<p><var>flags</var>: unused for now. Must be 0.

<p>This function will generate a random private key. Note that this function must be called on an empty private key.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_get_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_get_key_id (<var>gnutls_x509_privkey_t key, unsigned int flags, unsigned char * output_data, size_t * output_data_size</var><var></var>

<blockquote><p><var>key</var>: Holds the key

<p><var>flags</var>: should be 0 for now

<p><var>output_data</var>: will contain the key ID

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will return a unique ID the depends on the public key

parameters. This ID can be used in checking whether a certificate corresponds to the given key.

If the buffer provided is not long enough to hold the output, then `output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned. The output will normally be a SHA-1 hash output, which is 20 bytes.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_get_pk_algorithm

[gnutls_x509_privkey_get_pk_algorithm](#)

Function: int **gnutls_x509_privkey_get_pk_algorithm** (`gnutls_x509_privkey_t key`)
[index-gnutls_x509_privkey_get_pk_algorithm-492](#)

`key`: should contain a `gnutls_x509_privkey_t` structure

This function will return the public key algorithm of a private key.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

gnutls_x509_privkey_import_dsa_raw

[gnutls_x509_privkey_import_dsa_raw](#)

Function: int **gnutls_x509_privkey_import_dsa_raw** (`gnutls_x509_privkey_t key`, const `gnutls_datum_t * p`, const `gnutls_datum_t * q`, const `gnutls_datum_t * g`, const `gnutls_datum_t * y`, const `gnutls_datum_t * x`)
[index-gnutls_x509_privkey_import_dsa_raw-493](#)

The structure to store the parsed key

`p`: holds the p

`q`: holds the q

`g`: holds the g

`y`: holds the y

<p><var>x</var>: holds the x

<p>This function will convert the given DSA raw parameters to the native <code>gnutls_x509_privkey_t</code> format. The output will be stored in <code>key</code>.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_x509_privkey_import_pkcs8 (<var>gnutls_x509_privkey_t key, const gnutls_datum_t * data, gnutls_x509_crt_fmt_t format, const char * password, unsigned int flags</var>)<var></var>
 <blockquote><p><var>key</var>: The structure to store the parsed key <p><var>data</var>: The DER or PEM encoded key. <p><var>format</var>: One of DER or PEM <p><var>password</var>: the password to decrypt the key (if it is encrypted). <p><var>flags</var>: 0 if encrypted or GNUTLS_PKCS_PLAIN if not encrypted. <p>This function will convert the given DER or PEM encoded PKCS8 2.0 encrypted key to the native gnutls_x509_privkey_t format. The output will be stored in <code>key</code>. Both RSA and DSA keys can be imported, and flags can only be used to indicate an unencrypted key. <p>The <code>password</code> can be either ASCII or UTF-8 in the default PBES2 encryption schemas, or ASCII for the PKCS12 schemas. <p>If the Certificate is PEM encoded it should have a header of "ENCRYPTED PRIVATE KEY", or "PRIVATE KEY". You only need to specify the flags if the key is DER encoded, since in that case the encryption status cannot be auto-detected. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value. </p></blockquote></div> <p> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 588

<div class="defun">

— Function: int **gnutls_x509_privkey_import_rsa_raw** (<var>gnutls_x509_privkey_t key, const gnutls_datum_t * m, const gnutls_datum_t * e, const gnutls_datum_t * d, const gnutls_datum_t * p, const gnutls_datum_t * q, const gnutls_datum_t * u</var>)<var></var>
<blockquote><p><var>key</var>: The structure to store the parsed key

<p><var>m</var>: holds the modulus

<p><var>e</var>: holds the public exponent

<p><var>d</var>: holds the private exponent

<p><var>p</var>: holds the first prime (p)

<p><var>q</var>: holds the second prime (q)

<p><var>u</var>: holds the coefficient

<p>This function will convert the given RSA raw parameters to the native `gnutls_x509_privkey_t` format. The output will be stored in `key`.

<p>Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_import</h4>

<p>

<div class="defun">

— Function: int **gnutls_x509_privkey_import** (<var>gnutls_x509_privkey_t key, const gnutls_datum_t * data, gnutls_x509_crt_fmt_t format</var>)<var></var>
<blockquote><p><var>key</var>: The structure to store the parsed key

<p><var>data</var>: The DER or PEM encoded certificate.

<p><var>format</var>: One of DER or PEM

<p>This function will convert the given DER or PEM encoded key to the native `gnutls_x509_privkey_t` format. The output will be stored in `key` .

<p>If the key is PEM encoded it should have a header of "RSA PRIVATE KEY", or "DSA PRIVATE KEY".

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_init</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_init (<var>gnutls_x509_privkey_t * key</var>)<var></var>

<blockquote><p><var>key</var>: The structure to be initialized

<p>This function will initialize an private key structure.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_x509_privkey_sign_data</h4>

<p>

<div class="defun">

— Function: int gnutls_x509_privkey_sign_data (<var>gnutls_x509_privkey_t key, gnutls_digest_algorithm_t digest, unsigned int flags, const gnutls_datum_t * data, void * signature, size_t * signature_size</var>)<var></var>

<blockquote><p><var>key</var>: Holds the key

<p><var>digest</var>: should be MD5 or SHA1

<p><var>flags</var>: should be 0 for now

<p><var>data</var>: holds the data to be signed

<p><var>signature</var>: will contain the signature

<p><var>signature_size</var>: holds the size of signature (and will be replaced by the new size)

<p>This function will sign the given data using a signature algorithm supported by the private key. Signature algorithms are always used together with a hash functions. Different hash functions may be used for the RSA algorithm, but only SHA-1 for the DSA keys.

<p>If the buffer provided is not long enough to hold the output, then *<code>signature_size</code> is updated and <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will

be returned.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_sign_hash

Function: int **gnutls_x509_privkey_sign_hash** (`gnutls_x509_privkey_t key, const gnutls_datum_t * hash, gnutls_datum_t * signature`)
[index-gnutls_005fx509_005fprivkey_005fsign_005fhash-499](#)

`key`: Holds the key

`hash`: holds the data to be signed

`signature`: will contain newly allocated signature

This function will sign the given hash using the private key. Do not use this function directly unless you know what it is. Typical signing requires the data to be hashed and stored in special formats (e.g. BER Digest-Info for RSA).

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_verify_data

Function: int **gnutls_x509_privkey_verify_data** (`gnutls_x509_privkey_t key, unsigned int flags, const gnutls_datum_t * data, const gnutls_datum_t * signature`)
[index-gnutls_005fx509_005fprivkey_005fverify_005fdata-500](#)

`key`: Holds the key

`flags`: should be 0 for now

`data`: holds the data to be signed

`signature`: contains the signature

This function will verify the given signed data, using the parameters in the private key.

Returns: In case of a verification failure 0 is returned, and 1 on success.

gnutls_x509_rdn_get_by_oid

Function: int **gnutls_x509_rdn_get_by_oid** (`const gnutls_datum_t * idn, const char * oid, int indx, unsigned int raw_flag, void * buf, size_t * sizeof_buf`)
`index-gnutls_005fx509_005frdn_005fget_005fby_005foid-501`

`idn`: should contain a DER encoded RDN sequence

`oid`: an Object Identifier

`indx`: In case multiple same OIDs exist in the RDN indicates which to send. Use 0 for the first one.

`raw_flag`: If non zero then the raw DER data are returned.

`buf`: a pointer to a structure to hold the peer's name

`sizeof_buf`: holds the size of `buf`

This function will return the name of the given Object identifier, of the RDN sequence. The name will be encoded using the rules from RFC2253.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, or `GNUTLS_E_SHORT_MEMORY_BUFFER` is returned and `*sizeof_buf` is updated if the provided buffer is not long enough, otherwise a negative error value.

gnutls_x509_rdn_get_oid

Function: int **gnutls_x509_rdn_get_oid** (`const gnutls_datum_t * idn, int indx, void * buf, size_t * sizeof_buf`)
`index-gnutls_005fx509_005frdn_005fget_005foid-502`

`idn`: should contain a DER encoded RDN sequence

`indx`: Indicates which OID to return. Use 0 for the first one.

`buf`: a pointer to a structure to hold the peer's name OID

<p><var>sizeof_buf</var>: holds the size of <code>buf</code>

<p>This function will return the specified Object identifier, of the RDN sequence.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, or <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> is returned and *<code>sizeof_buf</code> is updated if the provided buffer is not long enough, otherwise a negative error value.

<p>Since: 2.4.0
</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_x509_rdn_get (<var>const gnutls_datum_t * idn, char * buf, size_t * sizeof_buf</var>)<var></var>
<blockquote><p><var>idn</var>: should contain a DER encoded RDN sequence <p><var>buf</var>: a pointer to a structure to hold the peer's name <p><var>sizeof_buf</var>: holds the size of <code>buf</code> <p>This function will return the name of the given RDN sequence. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, or <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> is returned and *<code>sizeof_buf</code> is updated if the provided buffer is not long enough, otherwise a negative error value. </p></blockquote></div> <div class="node"> <p><hr> Next: OpenPGP functions,& Previous: X.509 certificate functions,& Up: Function reference </div> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 593

9.3 GnuTLS-extra Functions

[index-g_t_0040acronym_007bGnuTLS_002dextra_007d-functions-504](#)

These functions are only available in the GPLv3+ version of the library called `gnutls-extra`. The prototypes for this library lie in `gnutls/extra.h`.

gnutls_extra_check_version

[gnutls_005fextra_005fcheck_005fversion](#)

Function: `const char * gnutls_extra_check_version` (`const char *`

`req_version`)
`req_version`: version string to compare with, or `NULL`.

Check GnuTLS Extra Library version.

See `GNUTLS_EXTRA_VERSION` for a suitable `req_version` string.

Return value: Check that the version of the library is at minimum the one given as a string in `req_version` and return the actual version string of the library; return `NULL` if the condition is not met. If `NULL` is passed to this function no check is done and only the version string is returned.

gnutls_global_init_extra

[gnutls_005fglobal_005finit_005fextra](#)

Function: `int gnutls_global_init_extra` (`void`)

`gnutls_005fglobal_005finit_005fextra`

This function initializes the global state of gnutls-extra library to defaults.

Note that `gnutls_global_init()` has to be called before this function. If this function is not called then the gnutls-extra library will not be usable.

This function is not thread safe, see the discussion for `gnutls_global_init()` on how to deal with that.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

```
<div class="node">
<a name="OpenPGP-functions"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#TLS-Inner-Application-_0028TLS_002fIA_0029-functions">TLS
Inner Application (TLS/IA) functions</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#GnuTLS_002dextra-functions">GnuTLS-extra
functions</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Function-reference">Function reference</a>

</div>
```

9.4 OpenPGP Functions

The following functions are to be used for OpenPGP certificate handling. Their prototypes lie in `gnutls/openpgp.h`.

`gnutls_certificate_set_openpgp_key_file2`

```
<p><a name="gnutls_005fcertificate_005fset_005fopenpgp_005fkey_005ffile2"></a>
```

```
<div class="defun">
```

```
&mdash; Function: int gnutls_certificate_set_openpgp_key_file2 (gnutls_certificate_credentials_t
res, const char * certfile, const char * keyfile, const char * subkey_id, gnutls_openpgp_cert_fmt_t
format)
<a name="index-gnutls_005fcertificate_005fset_005fopenpgp_005fkey_005ffile2-508"></a>
```

```
<blockquote><p>res: the destination context to save the data.
```

```
<p>certfile: the file that contains the public key.
```

```
<p>keyfile: the file that contains the secret key.
```

```
<p>subkey_id: a hex encoded subkey id
```

```
<p>format: the format of the keys
```

```
<p>This function is used to load OpenPGP keys into the GnuTLS credential structure. The files should contain non encrypted keys.
```

```
<p>The special keyword "auto" is also accepted as subkey_id. In that case the gnutls_openpgp_cert_get_auth_subkey() will be used to retrieve the subkey.
```

```
<p><strong>Returns:</strong> On success, GNUTLS_E_SUCCESS is returned, otherwise a negative error value.
```

<p>Since: 2.4.0
</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_set_openpgp_key_file</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_set_openpgp_key_file (<var>gnutls_certificate_credentials_t res, const char * certfile, const char * keyfile, gnutls_openpgp crt_fmt_t format</var>)<var></var>

<blockquote><p><var>res</var>: the destination context to save the data.

<p><var>certfile</var>: the file that contains the public key.

<p><var>keyfile</var>: the file that contains the secret key.

<p><var>format</var>: the format of the keys

<p>This funtion is used to load OpenPGP keys into the GnuTLS credentials structure. The files should only contain one key which is not encrypted.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.

</p></blockquote></div>

<h4 class="subheading">gnutls_certificate_set_openpgp_key_mem2</h4>

<p>

<div class="defun">

— Function: int gnutls_certificate_set_openpgp_key_mem2 (<var>gnutls_certificate_credentials_t res, const gnutls_datum_t * cert, const gnutls_datum_t * key, const char * subkey_id, gnutls_openpgp crt_fmt_t format</var>)<var></var>

<blockquote><p><var>res</var>: the destination context to save the data.

<p><var>cert</var>: the datum that contains the public key.

<p><var>key</var>: the datum that contains the secret key.

<p><var>subkey_id</var>: a hex encoded subkey id

<p><var>format</var>: the format of the keys

<p>This funtion is used to load OpenPGP keys into the GnuTLS credentials structure. The files should only contain one key which

is not encrypted.

The special keyword "auto" is also accepted as `subkey_id`. In that case the `gnutls_openpgp_cert_get_auth_subkey()` will be used to retrieve the subkey.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.4.0

gnutls_certificate_set_openpgp_key_mem

[gnutls_005fcertificate_005fset_005fopenpgp_005fkey_005fmem](#)

Function:

int **gnutls_certificate_set_openpgp_key_mem** (`gnutls_certificate_credentials_t` res, const `gnutls_datum_t` * cert, const `gnutls_datum_t` * key, `gnutls_openpgp_cert_fmt_t` format)

`res`: the destination context to save the data.

`cert`: the datum that contains the public key.

`key`: the datum that contains the secret key.

`format`: the format of the keys

This function is used to load OpenPGP keys into the GnuTLS credential structure. The files should contain non encrypted keys.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_certificate_set_openpgp_keyring_file

[gnutls_005fcertificate_005fset_005fopenpgp_005fkeyring_005ffile](#)

Function:

int **gnutls_certificate_set_openpgp_keyring_file** (`gnutls_certificate_credentials_t` c, const char * file, `gnutls_openpgp_cert_fmt_t` format)

`c`: A certificate credentials structure

`file`: filename of the keyring.

`format`: format of keyring.

The function is used to set keyrings that will be used internally by various OpenPGP functions. For example to find a key when it is needed for an operations. The keyring will also be used at the verification functions.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_certificate_set_openpgp_keyring_mem

[gnutls_005fcertificate_005fset_005fopenpgp_005fkeyring_005fmem](#)

Function: int `gnutls_certificate_set_openpgp_keyring_mem`

(`gnutls_certificate_credentials_t c`, const opaque * `data`, size_t `dlen`, `gnutls_openpgp_cert_fmt_t`

`format`)
`index-gnutls_005fcertificate_005fset_005fopenpgp_005fkeyring_005fmem-513`

`c`: A certificate credentials structure

`data`: buffer with keyring data.

`dlen`: length of data buffer.

`format`: the format of the keyring

The function is used to set keyrings that will be used internally by various OpenPGP functions. For example to find a key when it is needed for an operations. The keyring will also be used at the verification functions.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_certificate_set_openpgp_key

[gnutls_005fcertificate_005fset_005fopenpgp_005fkey](#)

Function: int `gnutls_certificate_set_openpgp_key`

(`gnutls_certificate_credentials_t res`, `gnutls_openpgp_cert_t crt`, `gnutls_openpgp_privkey_t pkey`)
`index-gnutls_005fcertificate_005fset_005fopenpgp_005fkey-514`

`res`: is a `gnutls_certificate_credentials_t` structure.

`pkey`: is an openpgp private key

<p>This function sets a certificate/private key pair in the gnutls_certificate_credentials_t structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

<p>With this function the subkeys of the certificate are not used.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_openpgp_cert_check_hostname (<var>gnutls_openpgp_cert_t key, const char * hostname</var>)<var></var>
 <blockquote><p><var>key</var>: should contain a <code>gnutls_openpgp_cert_t</code> structure <p><var>hostname</var>: A null terminated string that contains a DNS name <p>This function will check if the given key's owner matches the given hostname. This is a basic implementation of the matching described in RFC2818 (HTTPS), which takes into account wildcards. <p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code. </p></blockquote></div> <p> <div class="defun"> — Function: void gnutls_openpgp_cert_deinit (<var>gnutls_openpgp_cert_t key</var>)<var></var>
 <blockquote><p><var>key</var>: The structure to be initialized <p>This function will deinitialize a key structure. </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp_cert_export (<var>gnutls_openpgp_cert_t key, --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 599

gnutls_openpgp_crt_fmt_t format, void * output_data, size_t * output_data_size)

gnutls_005fopenpgp_005fcrt_005fexport-517" </var>

<blockquote><p><var>key</var>: Holds the key.

<p><var>format</var>: One of gnutls_openpgp_crt_fmt_t elements.

<p><var>output_data</var>: will contain the key base64 encoded or raw

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will convert the given key to RAW or Base64 format. If the buffer provided is not long enough to hold the output, then <code>GNUTLS_E_SHORT_MEMORY_BUFFER</code> will be returned.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

gnutls_openpgp_crt_get_auth_subkey

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_get_auth_subkey (<var>gnutls_openpgp_crt_t crt, gnutls_openpgp_keyid_t keyid, unsigned int flag</var>)<var></var>

<blockquote><p><var>crt</var>: the structure that contains the OpenPGP public key.

<p><var>keyid</var>: the struct to save the keyid.

<p><var>flag</var>: Non zero indicates that a valid subkey is always returned.

<p>Returns the 64-bit keyID of the first valid OpenPGP subkey marked for authentication. If flag is non zero and no authentication subkey exists, then a valid subkey will be returned even if it is not marked for authentication.

Returns the 64-bit keyID of the first valid OpenPGP subkey marked for authentication. If flag is non zero and no authentication subkey exists, then a valid subkey will be returned even if it is not marked for authentication.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

gnutls_openpgp_crt_get_creation_time

<p>

<div class="defun">
— Function: time_t gnutls_openpgp crt get creation time (<var>gnutls_openpgp crt t
key</var>)<var><a name="index-gnutls_005fopenpgp_005fcrt_005fget_005fcreation_005ftime-
519"></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p>Get key creation time.

<p>Returns: the timestamp when the OpenPGP key was created.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp crt get expiration time</h4>

<p>

<div class="defun">
— Function: time_t gnutls_openpgp crt get expiration time (<var>gnutls_openpgp crt t
key</var>)<var><a name="index-gnutls_005fopenpgp_005fcrt_005fget_005fexpiration_005ftime-
520"></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p>Get key expiration time. A value of '0' means that the key doesn't
expire at all.

<p>Returns: the time when the OpenPGP key expires.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp crt get fingerprint</h4>

<p>

<div class="defun">
— Function: int gnutls_openpgp crt get fingerprint (<var>gnutls_openpgp crt t key, void * fpr,
size_t * fprlen</var>)<var><a name="index-gnutls_005fopenpgp_005fcrt_005fget_005ffingerprint-
521"></var>

<blockquote><p><var>key</var>: the raw data that contains the OpenPGP public key.

<p><var>fpr</var>: the buffer to save the fingerprint, must hold at least 20 bytes.

<p><var>fprlen</var>: the integer to save the length of the fingerprint.

<p>Get key fingerprint. Depending on the algorithm, the fingerprint
can be 16 or 20 bytes.

<p>Returns: On success, 0 is returned. Otherwise, an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp crt get key id</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_get_key_id (<var>gnutls_openpgp_crt_t key, gnutls_openpgp_keyid_t keyid</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p><var>keyid</var>: the buffer to save the keyid.

<p>Get key id string.

<p>Returns: the 64-bit keyID of the OpenPGP key.

<p>Since: 2.4.0

</p></blockquote></div>

gnutls_openpgp_crt_get_key_usage

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_get_key_usage (<var>gnutls_openpgp_crt_t key, unsigned int * key_usage</var>)<var></var>

<blockquote><p><var>key</var>: should contain a gnutls_openpgp_crt_t structure

<p><var>key_usage</var>: where the key usage bits will be stored

<p>This function will return certificate's key usage, by checking the key algorithm. The key usage value will ORed values of the:

<code>GNUTLS_KEY_DIGITAL_SIGNATURE</code>,&br/>

<code>GNUTLS_KEY_KEY_ENCIIPHERMENT</code>.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

</p></blockquote></div>

gnutls_openpgp_crt_get_name

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_get_name (<var>gnutls_openpgp_crt_t key, int idx, char * buf, size_t * sizeof_buf</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p><var>idx</var>: the index of the ID to extract

<p><var>buf</var>: a pointer to a structure to hold the name

<p><var>sizeof_buf</var>: holds the maximum size of <code>buf</code>, on return hold the actual/required size of <code>buf</code>.

<p>Extracts the userID from the parsed OpenPGP key.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, and if the index of the ID does not exist <code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE</code>, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_get_pk_algorithm</h4>

<p>

<div class="defun">

— Function: gnutls_pk_algorithm_t gnutls_openpgp_cert_get_pk_algorithm

(<var>gnutls_openpgp_cert_t key, unsigned int * bits</var>)<var></var>

<blockquote><p><var>key</var>: is an OpenPGP key

<p><var>bits</var>: if bits is non null it will hold the size of the parameters' in bits

<p>This function will return the public key algorithm of an OpenPGP certificate.

<p>If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

<p>Returns: a member of the <code>gnutls_pk_algorithm_t</code> enumeration on success, or a negative value on error.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_get_pk_dsa_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_cert_get_pk_dsa_raw (<var>gnutls_openpgp_cert_t crt, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * g, gnutls_datum_t * y</var>)<var></var>

<blockquote><p><var>crt</var>: Holds the certificate

<p><var>p</var>: will hold the p

<p><var>q</var>: will hold the q

<p><var>g</var>: will hold the g

<p><var>y</var>: will hold the y

<p>This function will export the DSA public key's parameters found in the given certificate. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.4.0

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_openpgp_cert_get_pk_rsa_raw (<var>gnutls_openpgp_cert_t crt, gnutls_datum_t * m, gnutls_datum_t * e</var>)<var></var>
 <blockquote><p><var>crt</var>: Holds the certificate <p><var>m</var>: will hold the modulus <p><var>e</var>: will hold the public exponent <p>This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum. <p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error. <p>Since: 2.4.0 </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp_cert_get_preferred_key_id (<var>gnutls_openpgp_cert_t key, gnutls_openpgp_keyid_t keyid</var>)<var></var>
 <blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 604

<p><var>keyid</var>: the struct to save the keyid.

<p>Get preferred key id. If it hasn't been set it returns
<code>GNUTLS_E_INVALID_REQUEST</code>.

<p>Returns: the 64-bit preferred keyID of the OpenPGP key.
</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_openpgp_cert_get_revoked_status (<var>gnutls_openpgp_cert_t key</var>)<var></var>
 <blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. <p>Get revocation status of key. <p>Returns: true (1) if the key has been revoked, or false (0) if it has not. <p>Since: 2.4.0 </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp_cert_get_subkey_count (<var>gnutls_openpgp_cert_t key</var>)<var></var>
 <blockquote><p><var>key</var>: is an OpenPGP key <p>This function will return the number of subkeys present in the given OpenPGP certificate. <p>Returns: the number of subkeys, or a negative value on error. <p>Since: 2.4.0 </p></blockquote></div> <p> --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 605

<div class="defun">
— Function: time_t gnutls_openpgp_cert_get_subkey_creation_time (<var>gnutls_openpgp_cert_t key, unsigned int idx</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p><var>idx</var>: the subkey index

<p>Get subkey creation time.

<p>Returns: the timestamp when the OpenPGP sub-key was created.

<p>Since: 2.4.0

</p></blockquote></div>

gnutls_openpgp_cert_get_subkey_expiration_time</h4>

<p>

<div class="defun">
— Function: time_t gnutls_openpgp_cert_get_subkey_expiration_time (<var>gnutls_openpgp_cert_t key, unsigned int idx</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p><var>idx</var>: the subkey index

<p>Get subkey expiration time. A value of '0' means that the key doesn't expire at all.

<p>Returns: the time when the OpenPGP key expires.

<p>Since: 2.4.0

</p></blockquote></div>

gnutls_openpgp_cert_get_subkey_fingerprint</h4>

<p>

<div class="defun">
— Function: int gnutls_openpgp_cert_get_subkey_fingerprint (<var>gnutls_openpgp_cert_t key, unsigned int idx, void * fpr, size_t * fprlen</var>)<var></var>

<blockquote><p><var>key</var>: the raw data that contains the OpenPGP public key.

<p><var>idx</var>: the subkey index

<p><var>fpr</var>: the buffer to save the fingerprint, must hold at least 20 bytes.

<p><var>fprlen</var>: the integer to save the length of the fingerprint.

<p>Get key fingerprint of a subkey. Depending on the algorithm, the fingerprint can be 16 or 20 bytes.

<p>Returns: On success, 0 is returned. Otherwise, an error code.

<p>Since: 2.4.0

</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_openpgp crt_get_subkey_idx (<var>gnutls_openpgp crt_t key, const gnutls_openpgp_keyid_t keyid</var>)<var></var>
 <blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. <p><var>keyid</var>: the keyid. <p>Get subkey's index. <p>Returns: the index of the subkey or a negative error value. <p>Since: 2.4.0 </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp crt_get_subkey_id (<var>gnutls_openpgp crt_t key, unsigned int idx, gnutls_openpgp_keyid_t keyid</var>)<var></var>
 <blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. <p><var>idx</var>: the subkey index <p><var>keyid</var>: the buffer to save the keyid. <p>Get the subkey's key-id. <p>Returns: the 64-bit keyID of the OpenPGP key. --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 607

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_get_subkey_pk_algorithm</h4>

<p>

<div class="defun">

— Function: gnutls_pk_algorithm_t gnutls_openpgp_cert_get_subkey_pk_algorithm
(<var>gnutls_openpgp_cert_t key, unsigned int idx, unsigned int * bits</var>)<var></var>

<blockquote><p><var>key</var>: is an OpenPGP key

<p><var>idx</var>: is the subkey index

<p><var>bits</var>: if bits is non null it will hold the size of the parameters' in bits

<p>This function will return the public key algorithm of a subkey of an OpenPGP certificate.

<p>If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

<p>Returns: a member of the <code>gnutls_pk_algorithm_t</code> enumeration on success, or a negative value on error.

<p>Since: 2.4.0
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_get_subkey_pk_dsa_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_cert_get_subkey_pk_dsa_raw (<var>gnutls_openpgp_cert_t crt, unsigned int idx, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * g, gnutls_datum_t * y</var>)<var></var>

<blockquote><p><var>crt</var>: Holds the certificate

<p><var>idx</var>: Is the subkey index

<p><var>p</var>: will hold the p

<p><var>q</var>: will hold the q

<p><var>g</var>: will hold the g

<p><var>y</var>: will hold the y

<p>This function will export the DSA public key's parameters found in the given certificate. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.4.0
</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_openpgp_cert_get_subkey_pk_rsa_raw (<var>gnutls_openpgp_cert_t crt, unsigned int idx, gnutls_datum_t * m, gnutls_datum_t * e</var>)<var></var>
<blockquote><p><var>crt</var>: Holds the certificate <p><var>idx</var>: Is the subkey index <p><var>m</var>: will hold the modulus <p><var>e</var>: will hold the public exponent <p>This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum. <p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error. <p>Since: 2.4.0 </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp_cert_get_subkey_revoked_status (<var>gnutls_openpgp_cert_t key, unsigned int idx</var>)<var></var>
<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. <p><var>idx</var>: is the subkey index <p>Get subkey revocation status. A negative value indicates an error. --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 609

<p>Returns: true (1) if the key has been revoked, or false (0) if it has not.

<p>Since: 2.4.0</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_get_subkey_usage</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_cert_get_subkey_usage (<var>gnutls_openpgp_cert_t key, unsigned int idx, unsigned int * key_usage</var>)<var></var>
<blockquote><p><var>key</var>: should contain a gnutls_openpgp_cert_t structure

<p><var>idx</var>: the subkey index

<p><var>key_usage</var>: where the key usage bits will be stored

<p>This function will return certificate's key usage, by checking the key algorithm. The key usage value will ORed values of <code>GNUTLS_KEY_DIGITAL_SIGNATURE</code> or <code>GNUTLS_KEY_KEY_ENCIPHERMENT</code>.

<p>A negative value may be returned in case of parsing error.

<p>Returns: key usage value.

<p>Since: 2.4.0</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_get_version</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_cert_get_version (<var>gnutls_openpgp_cert_t key</var>)<var></var>
<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p>Extract the version of the OpenPGP key.

<p>Returns: the version number is returned, or a negative value on errors.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_cert_import</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_import (<var>gnutls_openpgp_crt_t key, const gnutls_datum_t * data, gnutls_openpgp_crt_fmt_t format</var>)<var></var>

<blockquote><p><var>key</var>: The structure to store the parsed key.

<p><var>data</var>: The RAW or BASE64 encoded key.

<p><var>format</var>: One of gnutls_openpgp_crt_fmt_t elements.

<p>This function will convert the given RAW or Base64 encoded key to the native <code>gnutls_openpgp_crt_t</code> format. The output will be stored in 'key'.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_crt_init</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_init (<var>gnutls_openpgp_crt_t * key</var>)<var></var>

<blockquote><p><var>key</var>: The structure to be initialized

<p>This function will initialize an OpenPGP key structure.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_crt_print</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_crt_print (<var>gnutls_openpgp_crt_t cert, gnutls_certificate_print_formats_t format, gnutls_datum_t * out</var>)<var></var>

<blockquote><p><var>cert</var>: The structure to be printed

<p><var>format</var>: Indicate the format to use

<p><var>out</var>: Newly allocated datum with zero terminated string.

<p>This function will pretty print an OpenPGP certificate, suitable for display to a human.

<p>The format should be zero for future compatibility.

<p>The output <code>out</code> needs to be deallocate using <code>gnutls_free()</code>.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

<p> <div class="defun"> — Function: int gnutls_openpgp_cert_set_preferred_key_id (<var>gnutls_openpgp_cert_t key, const gnutls_openpgp_keyid_t keyid</var>)<var></var>
 <blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. <p><var>keyid</var>: the selected keyid <p>This allows setting a preferred key id for the given certificate. This key will be used by functions that involve key handling. <p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.</p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp_cert_verify_ring (<var>gnutls_openpgp_cert_t key, gnutls_openpgp_keyring_t keyring, unsigned int flags, unsigned int * verify</var>)<var></var>
 <blockquote><p><var>key</var>: the structure that holds the key. <p><var>keyring</var>: holds the keyring to check against <p><var>flags</var>: unused (should be 0) <p><var>verify</var>: will hold the certificate verification output. <p>Verify all signatures in the key, using the given set of keys (keyring). --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 612

<p>The key verification output will be put in <code>verify</code> and will be one or more of the <code>gnutls_certificate_status_t</code> enumerated elements bitwise or'd.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

gnutls_openpgp_cert_verify_self</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_cert_verify_self (<var>gnutls_openpgp_cert_t key, unsigned int flags, unsigned int * verify</var><var></var>

<blockquote><p><var>key</var>: the structure that holds the key.

<p><var>flags</var>: unused (should be 0)

<p><var>verify</var>: will hold the key verification output.

<p>Verifies the self signature in the key. The key verification output will be put in <code>verify</code> and will be one or more of the <code>gnutls_certificate_status_t</code> enumerated elements bitwise or'd.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

gnutls_openpgp_keyring_check_id</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_keyring_check_id (<var>gnutls_openpgp_keyring_t ring, const gnutls_openpgp_keyid_t keyid, unsigned int flags</var><var></var>

<blockquote><p><var>ring</var>: holds the keyring to check against

<p><var>keyid</var>: will hold the keyid to check for.

<p><var>flags</var>: unused (should be 0)

<p>Check if a given key ID exists in the keyring.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success (if keyid exists) and a negative error code on failure.

</p></blockquote></div>

gnutls_openpgp_keyring_deinit

[gnutls_005openpgp_005fkeyring_005fdeinit](#)

Function:

`void gnutls_openpgp_keyring_deinit(gnutls_openpgp_keyring_t keyring)`
`keyring`: The structure to be initialized

This function will deinitialize a keyring structure.

gnutls_openpgp_keyring_get_cert_count

[gnutls_005openpgp_005fkeyring_005fget_005fcrt_005fcount](#)

Function:

`int gnutls_openpgp_keyring_get_cert_count(gnutls_openpgp_keyring_t ring)`
`ring`: is an OpenPGP key ring

This function will return the number of OpenPGP certificates present in the given keyring.

Returns: the number of subkeys, or a negative value on error.

gnutls_openpgp_keyring_get_cert

[gnutls_005openpgp_005fkeyring_005fget_005fcrt](#)

Function:

`int gnutls_openpgp_keyring_get_cert(gnutls_openpgp_keyring_t ring, unsigned int idx, gnutls_openpgp_cert_t * cert)`
`idx`: the index of the certificate to export

`cert`: An uninitialized `gnutls_openpgp_cert_t` structure

This function will extract an OpenPGP certificate from the given keyring. If the index given is out of range

`GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned. The returned structure needs to be deinit.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_keyring_import</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_keyring_import (<var>gnutls_openpgp_keyring_t keyring, const gnutls_datum_t * data, gnutls_openpgp_cert_fmt_t format</var>)<var></var>

<blockquote><p><var>keyring</var>: The structure to store the parsed key.

<p><var>data</var>: The RAW or BASE64 encoded keyring.

<p><var>format</var>: One of <code>gnutls_openpgp_keyring_fmt</code> elements.

<p>This function will convert the given RAW or Base64 encoded keyring to the native <code>gnutls_openpgp_keyring_t</code> format. The output will be stored in 'keyring'.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_keyring_init</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_keyring_init (<var>gnutls_openpgp_keyring_t * keyring</var>)<var></var>

<blockquote><p><var>keyring</var>: The structure to be initialized

<p>This function will initialize an keyring structure.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_deinit</h4>

<p>

<div class="defun">

— Function: void gnutls_openpgp_privkey_deinit (<var>gnutls_openpgp_privkey_t key</var>)<var></var>

<blockquote><p><var>key</var>: The structure to be initialized

<p>This function will deinitialize a key structure.

</p></blockquote></div>

gnutls_openpgp_privkey_export_dsa_raw

[gnutls_005fopenpgp_005fprivkey_005fexport_005fdsa_005fraw](#)

`<div class="defun">`

`— Function: int gnutls_openpgp_privkey_export_dsa_raw (<var>gnutls_openpgp_privkey_t pkey, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * g, gnutls_datum_t * y, gnutls_datum_t * x</var><var></var>
`

`<blockquote><p><var>pkey</var>: Holds the certificate`

`<p><var>p</var>: will hold the p`

`<p><var>q</var>: will hold the q`

`<p><var>g</var>: will hold the g`

`<p><var>y</var>: will hold the y`

`<p><var>x</var>: will hold the x`

`<p>This function will export the DSA private key's parameters found in the given certificate. The new parameters will be allocated using <code>gnutls_malloc() and will be stored in the appropriate datum.`

`<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.`

`<p>Since: 2.4.0`

`</p></blockquote></div>`

gnutls_openpgp_privkey_export_rsa_raw

[gnutls_005fopenpgp_005fprivkey_005fexport_005frsa_005fraw](#)

`<div class="defun">`

`— Function: int gnutls_openpgp_privkey_export_rsa_raw (<var>gnutls_openpgp_privkey_t pkey, gnutls_datum_t * m, gnutls_datum_t * e, gnutls_datum_t * d, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * u</var><var></var>
`

`<blockquote><p><var>pkey</var>: Holds the certificate`

`<p><var>m</var>: will hold the modulus`

`<p><var>e</var>: will hold the public exponent`

`<p><var>d</var>: will hold the private exponent`

<p><var>p</var>: will hold the first prime (p)

<p><var>q</var>: will hold the second prime (q)

<p><var>u</var>: will hold the coefficient

<p>This function will export the RSA private key's parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_export_subkey_dsa_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_export_subkey_dsa_raw (<var>gnutls_openpgp_privkey_t pkey, unsigned int idx, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * g, gnutls_datum_t * y, gnutls_datum_t * x</var>)<var><a name="index-

gnutls_005fopenpgp_005fprivkey_005fexport_005fsubkey_005fdsa_005fraw-557"></var>

<blockquote><p><var>pkey</var>: Holds the certificate

<p><var>idx</var>: Is the subkey index

<p><var>p</var>: will hold the p

<p><var>q</var>: will hold the q

<p><var>g</var>: will hold the g

<p><var>y</var>: will hold the y

<p><var>x</var>: will hold the x

<p>This function will export the DSA private key's parameters found in the given certificate. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_export_subkey_rsa_raw</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_export_subkey_rsa_raw (<var>gnutls_openpgp_privkey_t pkey, unsigned int idx, gnutls_datum_t * m, gnutls_datum_t * e, gnutls_datum_t * d, gnutls_datum_t * p, gnutls_datum_t * q, gnutls_datum_t * u</var>)<var><a name="index-

gnutls_005fopenpgp_005fprivkey_005fexport_005fsubkey_005frsa_005fraw-558"></var>

<blockquote><p><var>pkey</var>: Holds the certificate

<p><var>idx</var>: Is the subkey index

<p><var>m</var>: will hold the modulus

<p><var>e</var>: will hold the public exponent

<p><var>d</var>: will hold the private exponent

<p><var>p</var>: will hold the first prime (p)

<p><var>q</var>: will hold the second prime (q)

<p><var>u</var>: will hold the coefficient

<p>This function will export the RSA private key's parameters found in the given structure. The new parameters will be allocated using <code>gnutls_malloc()</code> and will be stored in the appropriate datum.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, otherwise an error.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_export</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_export (<var>gnutls_openpgp_privkey_t key, gnutls_openpgp crt_fmt_t format, const char * password, unsigned int flags, void * output_data, size_t * output_data_size</var>)<var><a name="index-gnutls_005fopenpgp_005fprivkey_005fexport-

559"></var>

<blockquote><p><var>key</var>: Holds the key.

<p><var>format</var>: One of gnutls_openpgp crt_fmt_t elements.

<p><var>password</var>: the password that will be used to encrypt the key. (unused for now)

<p><var>flags</var>: zero for future compatibility

<p><var>output_data</var>: will contain the key base64 encoded or raw

<p><var>output_data_size</var>: holds the size of output_data (and will be replaced by the actual size of parameters)

<p>This function will convert the given key to RAW or Base64 format.
If the buffer provided is not long enough to hold the output, then
GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_fingerprint</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_get_fingerprint (<var>gnutls_openpgp_privkey_t key,
void * fpr, size_t * fprlen</var>)<var></var>

<blockquote><p><var>key</var>: the raw data that contains the OpenPGP secret key.

<p><var>fpr</var>: the buffer to save the fingerprint, must hold at least 20 bytes.

<p><var>fprlen</var>: the integer to save the length of the fingerprint.

<p>Get the fingerprint of the OpenPGP key. Depends on the
algorithm, the fingerprint can be 16 or 20 bytes.

<p>Returns: On success, 0 is returned, or an error code.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_get_key_id (<var>gnutls_openpgp_privkey_t key,
gnutls_openpgp_keyid_t keyid</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP secret key.

<p><var>keyid</var>: the buffer to save the keyid.

<p>Get key-id.

<p>Returns: the 64-bit keyID of the OpenPGP key.

<p>Since: 2.4.0

</p></blockquote></div>

<p> <div class="defun"> — Function: gnutls_pk_algorithm_t gnutls_openpgp_privkey_get_pk_algorithm (<var>gnutls_openpgp_privkey_t key, unsigned int * bits</var><var></var>
 <blockquote><p><var>key</var>: is an OpenPGP key <p><var>bits</var>: if bits is non null it will hold the size of the parameters' in bits <p>This function will return the public key algorithm of an OpenPGP certificate. <p>If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent. <p>Returns: a member of the <code>gnutls_pk_algorithm_t</code> enumeration on success, or a negative value on error. <p>Since: 2.4.0 </p></blockquote></div> <p> <div class="defun"> — Function: int gnutls_openpgp_privkey_get_preferred_key_id (<var>gnutls_openpgp_privkey_t key, gnutls_openpgp_keyid_t keyid</var><var></var>
 <blockquote><p><var>key</var>: the structure that contains the OpenPGP public key. <p><var>keyid</var>: the struct to save the keyid. <p>Get the preferred key-id for the key. --- Open Source Used In USC GAN R2.10 Application Software R2.10.34.9 620

<p>Returns: the 64-bit preferred keyID of the OpenPGP key, or if it hasn't been set it returns <code>GNUTLS_E_INVALID_REQUEST</code>.</p></div>

</p></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_revoked_status</h4>

<p></p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_get_revoked_status (<var>gnutls_openpgp_privkey_t key</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP private key.</p>

<p>Get revocation status of key.</p>

<p>Returns: true (1) if the key has been revoked, or false (0) if it has not, or a negative value indicates an error.</p>

<p>Since: 2.4.0</p>

</p></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_subkey_count</h4>

<p></p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_get_subkey_count (<var>gnutls_openpgp_privkey_t key</var>)<var></var>

<blockquote><p><var>key</var>: is an OpenPGP key</p>

<p>This function will return the number of subkeys present in the given OpenPGP certificate.</p>

<p>Returns: the number of subkeys, or a negative value on error.</p>

<p>Since: 2.4.0</p>

</p></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_subkey_creation_time</h4>

<p></p>

<div class="defun">

— Function: time_t gnutls_openpgp_privkey_get_subkey_creation_time

(<var>gnutls_openpgp_privkey_t key, unsigned int idx</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP private key.

<p><var>idx</var>: the subkey index

<p>Get subkey creation time.

<p>Returns: the timestamp when the OpenPGP key was created.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_subkey_expiration_time</h4>

<p>

<div class="defun">

— Function: time_t gnutls_openpgp_privkey_get_subkey_expiration_time

(<var>gnutls_openpgp_privkey_t key, unsigned int idx</var><var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP private key.

<p><var>idx</var>: the subkey index

<p>Get subkey expiration time. A value of '0' means that the key doesn't expire at all.

<p>Returns: the time when the OpenPGP key expires.

<p>Since: 2.4.0

</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_subkey_fingerprint</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_get_subkey_fingerprint (<var>gnutls_openpgp_privkey_t key, unsigned int idx, void * fpr, size_t * fprlen</var><var></var>

<blockquote><p><var>key</var>: the raw data that contains the OpenPGP secret key.

<p><var>idx</var>: the subkey index

<p><var>fpr</var>: the buffer to save the fingerprint, must hold at least 20 bytes.

<p><var>fprlen</var>: the integer to save the length of the fingerprint.

<p>Get the fingerprint of an OpenPGP subkey. Depends on the

algorithm, the fingerprint can be 16 or 20 bytes.

Returns: On success, 0 is returned, or an error code.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_idx

Function: int **gnutls_openpgp_privkey_get_subkey_idx** (**gnutls_openpgp_privkey_t** key, const **gnutls_openpgp_keyid_t** keyid) **index-gnutls_005fopenpgp_005fprivkey_005fget_005fsubkey_005fidx-569**
key: the structure that contains the OpenPGP private key.

keyid: the keyid.

Get index of subkey.

Returns: the index of the subkey or a negative error value.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_id

Function: int **gnutls_openpgp_privkey_get_subkey_id** (**gnutls_openpgp_privkey_t** key, unsigned int idx, **gnutls_openpgp_keyid_t** keyid) **index-gnutls_005fopenpgp_005fprivkey_005fget_005fsubkey_005fid-570**
key: the structure that contains the OpenPGP secret key.

idx: the subkey index

keyid: the buffer to save the keyid.

Get the key-id for the subkey.

Returns: the 64-bit keyID of the OpenPGP key.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_pk_algorithm

<p>

<div class="defun">

— Function: `gnutls_pk_algorithm_t` `gnutls_openpgp_privkey_get_subkey_pk_algorithm`
(`gnutls_openpgp_privkey_t` key, unsigned int idx, unsigned int * bits)
<var></var>

<blockquote><p><var>key</var>: is an OpenPGP key

<p><var>idx</var>: is the subkey index

<p><var>bits</var>: if bits is non null it will hold the size of the parameters' in bits

<p>This function will return the public key algorithm of a subkey of an OpenPGP certificate.

<p>If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

<p>Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

<p>Since: 2.4.0
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_get_subkey_revoked_status</h4>

<p>

<div class="defun">

— Function: `int` `gnutls_openpgp_privkey_get_subkey_revoked_status`
(`gnutls_openpgp_privkey_t` key, unsigned int idx)
<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP private key.

<p><var>idx</var>: is the subkey index

<p>Get revocation status of key.

<p>Returns: true (1) if the key has been revoked, or false (0) if it has not, or a negative value indicates an error.

<p>Since: 2.4.0
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_import</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_import (<var>gnutls_openpgp_privkey_t key, const gnutls_datum_t * data, gnutls_openpgp crt_fmt_t format, const char * password, unsigned int flags</var>)<var></var>

<blockquote><p><var>key</var>: The structure to store the parsed key.

<p><var>data</var>: The RAW or BASE64 encoded key.

<p><var>format</var>: One of <code>gnutls_openpgp crt_fmt_t</code> elements.

<p><var>password</var>: not used for now

<p><var>flags</var>: should be zero

<p>This function will convert the given RAW or Base64 encoded key to the native gnutls_openpgp_privkey_t format. The output will be stored in 'key'.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_init</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_init (<var>gnutls_openpgp_privkey_t * key</var>)<var></var>

<blockquote><p><var>key</var>: The structure to be initialized

<p>This function will initialize an OpenPGP key structure.

<p>Returns: <code>GNUTLS_E_SUCCESS</code> on success, or an error code.</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_set_preferred_key_id</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_set_preferred_key_id (<var>gnutls_openpgp_privkey_t key, const gnutls_openpgp_keyid_t keyid</var>)<var></var>

<blockquote><p><var>key</var>: the structure that contains the OpenPGP public key.

<p><var>keyid</var>: the selected keyid

<p>This allows setting a preferred key id for the given certificate.
This key will be used by functions that involve key handling.

<p>Returns: On success, 0 is returned, or an error code.
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_privkey_sign_hash</h4>

<p>

<div class="defun">

— Function: int gnutls_openpgp_privkey_sign_hash (<var>gnutls_openpgp_privkey_t key, const gnutls_datum_t * hash, gnutls_datum_t * signature</var>)<var></var>

<blockquote><p><var>key</var>: Holds the key

<p><var>hash</var>: holds the data to be signed

<p><var>signature</var>: will contain newly allocated signature

<p>This function will sign the given hash using the private key. You should use <code>gnutls_openpgp_privkey_set_subkey()</code> before calling this function to set the subkey to use.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> is returned, otherwise a negative error value.
</p></blockquote></div>

<h4 class="subheading">gnutls_openpgp_set_recv_key_function</h4>

<p>

<div class="defun">

— Function: void gnutls_openpgp_set_recv_key_function (<var>gnutls_session_t session, gnutls_openpgp_recv_key_func func</var>)<var></var>

<blockquote><p><var>session</var>: a TLS session

<p><var>func</var>: the callback

<p>This function will set a key retrieval function for OpenPGP keys. This callback is only useful in server side, and will be used if the peer sent a key fingerprint instead of a full key.

</p></blockquote></div>

<div class="node">

<p><hr>

Next: Error codes and descriptions,&br/>Previous: OpenPGP functions,&br/>Up: Function reference

</div>

9.5 <acronym>TLS</acronym> Inner Application (<acronym>TLS/IA</acronym>) Functions</h3>

<p>

The following functions are used for <acronym>TLS</acronym> Inner Application (<acronym>TLS/IA</acronym>). Their prototypes lie in <samp>gnutls/extra.h</samp>.

You need to link with <samp>libgnutls-extra</samp> to be able to use these functions (see GnuTLS-extra functions).

<p>The typical control flow in an TLS/IA client (that would not require an Application Phase for resumed sessions) would be similar to the following:

```
<pre class="example"> int client_avp (gnutls_session_t *session, void *ptr,
                const char *last, size_t lastlen,
                char **new, size_t *newlen)
{
...
}
...
int main ()
{
    gnutls_ia_client_credentials_t iacred;
...
    gnutls_init (&session, GNUTLS_CLIENT);
...
    /* Enable TLS/IA. */
    gnutls_ia_allocate_client_credentials(&iacred);
    gnutls_ia_set_client_avp_function(iacred, client_avp);
    gnutls_credentials_set (session, GNUTLS_CRD_IA, iacred);
...
    ret = gnutls_handshake (session);
    // Error handling...
...
    if (gnutls_ia_handshake_p (session))
    {
        ret = gnutls_ia_handshake (session);
    }
}
```

```
// Error handling...
...
</pre>
<p>See below for detailed descriptions of all the functions used above.
```

<p>The function `client_avp` would have to be implemented by your application. The function is responsible for handling the AVP data. See `gnutls_ia_set_client_avp_function` below for more information on how that function should be implemented.

<p>The control flow in a typical server is similar to the above, use `gnutls_ia_server_credentials_t` instead of `gnutls_ia_client_credentials_t`, and replace the call to the client functions with the corresponding server functions.

gnutls_ia_allocate_client_credentials

<div class="defun">
— Function: int **gnutls_ia_allocate_client_credentials** (`gnutls_ia_client_credentials_t *sc`)<var></var>

<blockquote><p><var>sc</var>: is a pointer to a `gnutls_ia_server_credentials_t` structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

<p>Adding this credential to a session will enable TLS/IA, and will require an Application Phase after the TLS handshake (if the server support TLS/IA). Use `gnutls_ia_require_inner_phase()` to toggle the TLS/IA mode.

<p>Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_ia_allocate_server_credentials

<div class="defun">
— Function: int **gnutls_ia_allocate_server_credentials** (`gnutls_ia_server_credentials_t *sc`)<var></var>

<blockquote><p><var>sc</var>: is a pointer to a `gnutls_ia_server_credentials_t` structure.

<p>This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

Adding this credential to a session will enable TLS/IA, and will require an Application Phase after the TLS handshake (if the client support TLS/IA). Use `gnutls_ia_require_inner_phase()` to toggle the TLS/IA mode.

Returns: On success, `GNUTLS_E_SUCCESS` (0) is returned, otherwise an error code is returned.

gnutls_ia_enable

Function: void `gnutls_ia_enable` (`gnutls_session_t session`, int `allow_skip_on_resume`)
`session`: is a `gnutls_session_t` structure.

`allow_skip_on_resume`: non-zero if local party allows to skip the TLS/IA application phases for a resumed session.

Specify whether we must advertise support for the TLS/IA extension during the handshake.

At the client side, we always advertise TLS/IA if `gnutls_ia_enable` was called before the handshake; at the server side, we also require that the client has advertised that it wants to run TLS/IA before including the advertisement, as required by the protocol.

Similarly, at the client side we always advertise that we allow TLS/IA to be skipped for resumed sessions if `allow_skip_on_resume` is non-zero; at the server side, we also require that the session is indeed resumable and that the client has also advertised that it allows TLS/IA to be skipped for resumed sessions.

After the TLS handshake, call `gnutls_ia_handshake_p()` to find out whether both parties agreed to do a TLS/IA handshake, before calling `gnutls_ia_handshake()` or one of the lower level `gnutls_ia_*` functions.

gnutls_ia_endphase_send

Function: int `gnutls_ia_endphase_send` (`gnutls_session_t session`, int `final_p`)

`session`: is a `gnutls_session_t` structure.

`final_p`: Set iff this should signal the final phase.

Send a TLS/IA end phase message.

In the client, this should only be used to acknowledge an end phase message sent by the server.

In the server, this can be called instead of `gnutls_ia_send()` if the server wishes to end an application phase.

Return value: Return 0 on success, or an error code.

gnutls_ia_extract_inner_secret

[gnutls_005fia_005fextract_005finner_005fsecret](#)

`gnutls_ia_extract_inner_secret`

Function: void `gnutls_ia_extract_inner_secret` (`gnutls_session_t session`, char * `buffer`)
[index-gnutls_005fia_005fextract_005finner_005fsecret-584](#)
`session`: is a `gnutls_session_t` structure.

`buffer`: pre-allocated buffer to hold 48 bytes of inner secret.

Copy the 48 bytes large inner secret into the specified buffer

This function is typically used after the TLS/IA handshake has concluded. The TLS/IA inner secret can be used as input to a PRF to derive session keys. Do not use the inner secret directly as a session key, because for a resumed session that does not include an application phase, the inner secret will be identical to the inner secret in the original session. It is important to include, for example, the client and server randomness when deriving a session key from the inner secret.

gnutls_ia_free_client_credentials

[gnutls_005fia_005ffree_005fclient_005fcredentials](#)

`gnutls_ia_free_client_credentials`

Function: void `gnutls_ia_free_client_credentials` (`gnutls_ia_client_credentials_t sc`)
[index-gnutls_005fia_005ffree_005fclient_005fcredentials-585](#)
`sc`: is a `gnutls_ia_client_credentials_t` structure.

This structure is complex enough to manipulate directly thus this

helper function is provided in order to free (deallocate) it.

gnutls_ia_free_server_credentials

– Function: void **gnutls_ia_free_server_credentials** (`gnutls_ia_server_credentials_t sc`)
`sc`: is a `gnutls_ia_server_credentials_t` structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_ia_generate_challenge

– Function: int **gnutls_ia_generate_challenge** (`gnutls_session_t session`, `size_t buffer_size`, `char * buffer`)
`session`: is a `gnutls_session_t` structure.

`buffer_size`: size of output buffer.

`buffer`: pre-allocated buffer to contain `buffer_size` bytes of output.

Generate an application challenge that the client cannot control or predict, based on the TLS/IA inner secret.

Return value: Returns 0 on success, or an negative error code.

gnutls_ia_get_client_avp_ptr

– Function: void * **gnutls_ia_get_client_avp_ptr** (`gnutls_ia_client_credentials_t cred`)
`cred`: is a `gnutls_ia_client_credentials_t` structure.

Returns the pointer that will be provided to the TLS/IA callback function as the first argument.

Returns: The client callback data pointer.

</p></blockquote></div>

<h4 class="subheading">gnutls_ia_get_server_avp_ptr</h4>

<p>

<div class="defun">

— Function: void * gnutls_ia_get_server_avp_ptr (<var>gnutls_ia_server_credentials_t cred</var><var></var>
<blockquote><p><var>cred</var>: is a <code>gnutls_ia_client_credentials_t</code> structure.

<p>Returns the pointer that will be provided to the TLS/IA callback function as the first argument.

<p>Returns: The server callback data pointer.</p></blockquote></div>

<h4 class="subheading">gnutls_ia_handshake_p</h4>

<p>

<div class="defun">

— Function: int gnutls_ia_handshake_p (<var>gnutls_session_t session</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Predicate to be used after <code>gnutls_handshake()</code> to decide whether to invoke <code>gnutls_ia_handshake()</code>. Usable by both clients and servers.

<p>Return value: non-zero if TLS/IA handshake is expected, zero otherwise.</p></blockquote></div>

<h4 class="subheading">gnutls_ia_handshake</h4>

<p>

<div class="defun">

— Function: int gnutls_ia_handshake (<var>gnutls_session_t session</var><var></var>
<blockquote><p><var>session</var>: is a <code>gnutls_session_t</code> structure.

<p>Perform a TLS/IA handshake. This should be called after <code>gnutls_handshake()</code> iff <code>gnutls_ia_handshake_p()</code>.

<p>Returns: On success, <code>GNUTLS_E_SUCCESS</code> (zero) is returned, otherwise an error code is returned.</p></blockquote></div>

gnutls_ia_permute_inner_secret

[gnutls_005fia_005fpermute_005finner_005fsecret](#)

Function: int `gnutls_ia_permute_inner_secret` (`gnutls_session_t session`, `size_t session_keys_size`, `const char * session_keys`)

`gnutls_session_t session`, `size_t session_keys_size`, `const char * session_keys`

[index-gnutls_005fia_005fpermute_005finner_005fsecret-592](#)

`session`: is a `gnutls_session_t` structure.

`session_keys_size`: Size of generated session keys (0 if none).

`session_keys`: Generated session keys, used to permute inner secret (NULL if none).

Permute the inner secret using the generated session keys.

This can be called in the TLS/IA AVP callback to mix any generated session keys with the TLS/IA inner secret.

Return value: Return zero on success, or a negative error code.

gnutls_ia_rcv

[gnutls_005fia_005frcv](#)

Function: `ssize_t gnutls_ia_rcv` (`gnutls_session_t session`, `char * data`, `size_t sizeofdata`)

`gnutls_session_t session`, `char * data`, `size_t sizeofdata`

[index-gnutls_005fia_005frcv-593](#)

`session`: is a `gnutls_session_t` structure.

`data`: the buffer that the data will be read into, must hold ≥ 12 bytes.

`sizeofdata`: the number of requested bytes, must be ≥ 12 .

Receive TLS/IA data. This function has the similar semantics with `rcv()`. The only difference is that it accepts a GnuTLS session, and uses different error codes.

If the server attempt to finish an application phase, this function will return `GNUTLS_E_WARNING_IA_IPHF_RECEIVED` or `GNUTLS_E_WARNING_IA_FPHF_RECEIVED`. The caller should then invoke `gnutls_ia_verify_endphase()`, and if it runs the client side, also send an endphase message of its own using `gnutls_ia_endphase_send`.

If EINTR is returned by the internal push function (the default is

`code`{`recv()`}) then `GNUTLS_E_INTERRUPTED` will be returned. If `GNUTLS_E_INTERRUPTED` or `GNUTLS_E_AGAIN` is returned, you must call this function again, with the same parameters; alternatively you could provide a `NULL` pointer for data, and 0 for size.

Returns: The number of bytes received. A negative error code is returned in case of an error. The `GNUTLS_E_WARNING_IA_IPHF_RECEIVED` and `GNUTLS_E_WARNING_IA_FPHF_RECEIVED` errors are returned when an application phase finished message has been sent by the server.

gnutls_ia_send

[gnutls_005fia_005fsend](#)

Function:

ssize_t `gnutls_ia_send`(`gnutls_session_t session`, `const char * data`, `size_t sizeofdata`)

`session`: is a `gnutls_session_t` structure.

`data`: contains the data to send

`sizeofdata`: is the length of the data

Send TLS/IA application payload data. This function has the similar semantics with `send()`. The only difference is that it accepts a GnuTLS session, and uses different error codes.

The TLS/IA protocol is synchronous, so you cannot send more than one packet at a time. The client always send the first packet.

To finish an application phase in the server, use `gnutls_ia_endphase_send()`. The client cannot end an application phase unilaterally; rather, a client is required to respond with an endphase of its own if `gnutls_ia_recv` indicates that the server has sent one.

If the `EINTR` is returned by the internal push function (the default is `send()`) then `GNUTLS_E_INTERRUPTED` will be returned. If `GNUTLS_E_INTERRUPTED` or `GNUTLS_E_AGAIN` is returned, you must call this function again, with the same parameters; alternatively you could provide a `NULL` pointer for data, and 0 for size.

Returns: The number of bytes sent, or a negative error code.

gnutls_ia_set_client_avp_function

<p>

<div class="defun">

— Function: void gnutls_ia_set_client_avp_function (<var>gnutls_ia_client_credentials_t cred, gnutls_ia_avp_func avp_func</var>)<var></var>

<blockquote><p><var>cred</var>: is a <code>gnutls_ia_client_credentials_t</code> structure.

<p><var>avp_func</var>: is the callback function

<p>Set the TLS/IA AVP callback handler used for the session.

<p>The AVP callback is called to process AVPs received from the server, and to get a new AVP to send to the server.

<p>The callback's function form is:

```
int (*avp_func) (gnutls_session_t session, void *ptr,
const char *last, size_t lastlen,
char **next, size_t *nextlen);
```

<p>The <code>session</code> parameter is the <code>gnutls_session_t</code> structure corresponding to the current session. The <code>ptr</code> parameter is the application hook pointer, set through <code>gnutls_ia_set_client_avp_ptr</code>. The AVP received from the server is present in <code>last</code> of <code>lastlen</code> size, which will be <code>NULL</code> on the first invocation. The newly allocated output AVP to send to the server should be placed in *<code>next</code> of *<code>nextlen</code> size.

<p>The callback may invoke <code>gnutls_ia_permute_inner_secret</code> to mix any generated session keys with the TLS/IA inner secret.

<p>Return 0 (<code>GNUTLS_IA_APPLICATION_PAYLOAD</code>) on success, or a negative error code to abort the TLS/IA handshake.

<p>Note that the callback must use allocate the <code>next</code> parameter using <code>gnutls_malloc</code>, because it is released via <code>gnutls_free</code> by the TLS/IA handshake function.

<p></blockquote></div>

<h4 class="subheading">gnutls_ia_set_client_avp_ptr</h4>

<p>

<div class="defun">

— Function: void gnutls_ia_set_client_avp_ptr (<var>gnutls_ia_client_credentials_t cred, void *ptr</var>)<var></var>

<blockquote><p><var>cred</var>: is a <code>gnutls_ia_client_credentials_t</code> structure.

<p><var>ptr</var>: is the pointer

<p>Sets the pointer that will be provided to the TLS/IA callback function as the first argument.

</p></blockquote></div>

<h4 class="subheading">gnutls_ia_set_server_avp_function</h4>

<p>

<div class="defun">

— Function: void gnutls_ia_set_server_avp_function (<var>gnutls_ia_server_credentials_t cred, gnutls_ia_avp_func avp_func</var>)<var></var>

<blockquote><p><var>cred</var>: is a <code>gnutls_ia_server_credentials_t</code> structure.

<p>Set the TLS/IA AVP callback handler used for the session.

<p>The callback's function form is:

```
int (*avp_func) (gnutls_session_t session, void *ptr,
const char *last, size_t lastlen,
char **next, size_t *nextlen);
```

<p>The <code>session</code> parameter is the <code>gnutls_session_t</code> structure corresponding to the current session. The <code>ptr</code> parameter is the application hook pointer, set through <code>gnutls_ia_set_server_avp_ptr</code>. The AVP received from the client is present in <code>last</code> of <code>lastlen</code> size. The newly allocated output AVP to send to the client should be placed in *<code>next</code> of *<code>nextlen</code> size.

<p>The AVP callback is called to process incoming AVPs from the client, and to get a new AVP to send to the client. It can also be used to instruct the TLS/IA handshake to do go into the Intermediate or Final phases. It return a negative error code, or a <code>gnutls_ia_apptype_t</code> message type.

<p>The callback may invoke <code>gnutls_ia_permute_inner_secret</code> to mix any generated session keys with the TLS/IA inner secret.

<p>Specifically, return <code>GNUTLS_IA_APPLICATION_PAYLOAD</code> (0) to send another AVP to the client, return <code>GNUTLS_IA_INTERMEDIATE_PHASE_FINISHED</code> (1) to indicate that an IntermediatePhaseFinished message should be sent, and return <code>GNUTLS_IA_FINAL_PHASE_FINISHED</code> (2) to indicate that an FinalPhaseFinished message should be sent. In the last two cases, the contents of the <code>next</code> and <code>nextlen</code> parameter is not used.

Note that the callback must use allocate the `next` parameter using `gnutls_malloc()`, because it is released via `gnutls_free()` by the TLS/IA handshake function.

gnutls_ia_set_server_avp_ptr

[gnutls_005fia_005fset_005fserver_005favp_005fptr](#)

Function: void `gnutls_ia_set_server_avp_ptr` (`gnutls_ia_server_credentials_t cred`, void *`ptr`)

`ptr`: is a `gnutls_ia_client_credentials_t` structure.

`ptr`: is the pointer

Sets the pointer that will be provided to the TLS/IA callback function as the first argument.

gnutls_ia_verify_endphase

[gnutls_005fia_005fverify_005fendphase](#)

Function: int `gnutls_ia_verify_endphase` (`gnutls_session_t session`, const char *`checksum`)

`session`: is a `gnutls_session_t` structure.

`checksum`: 12-byte checksum data, received from `gnutls_ia_recv()`.

Verify TLS/IA end phase checksum data. If verification fails, the `GNUTLS_A_INNER_APPLICATION_VERIFICATION` alert is sent to the other side.

This function is called when `gnutls_ia_recv()` return `GNUTLS_E_WARNING_IA_IPHF_RECEIVED` or `GNUTLS_E_WARNING_IA_FPHF_RECEIVED`.

Return value: Return 0 on successful verification, or an error code. If the checksum verification of the end phase message fails, `GNUTLS_E_IA_VERIFY_FAILED` is returned.

Error-codes-and-descriptions

[Error-codes-and-descriptions](#)

Previous: TLS Inner Application (TLS/IA) functions,</p></div>
<div>
<p>Up: Function reference</p></div>
<div>
<p></div></p></div>
<div>
<h3 class="section">9.6 Error Codes and Descriptions</h3></div>
<div>
<p></p></div>
<div>
<p>The error codes used throughout the library are described below. The return code <code>GNUTLS_E_SUCCESS</code> indicate successful operation, and is guaranteed to have the value 0, so you can use it in logical expressions.</p></div>
<div>
<p><dl></p></div>
<div>
<p><dt><code>GNUTLS_E_AGAIN:</code><dd>Resource temporarily unavailable, try again.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_DER_ERROR:</code><dd>ASN1 parser: Error in DER parsing.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_DER_OVERFLOW:</code><dd>ASN1 parser: Overflow in DER parsing.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_ELEMENT_NOT_FOUND:</code><dd>ASN1 parser: Element was not found.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_GENERIC_ERROR:</code><dd>ASN1 parser: Generic parsing error.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_IDENTIFIER_NOT_FOUND:</code><dd>ASN1 parser: Identifier was not found</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_SYNTAX_ERROR:</code><dd>ASN1 parser: Syntax error.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_TAG_ERROR:</code><dd>ASN1 parser: Error in TAG.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_TAG_IMPLICIT:</code><dd>ASN1 parser: error in implicit tag</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_TYPE_ANY_ERROR:</code><dd>ASN1 parser: Error in type 'ANY'.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_VALUE_NOT_FOUND:</code><dd>ASN1 parser: Value was not found.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_ASN1_VALUE_NOT_VALID:</code><dd>ASN1 parser: Value is not valid.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_BASE64_DECODING_ERROR:</code><dd>Base64 decoding error.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_BASE64_ENCODING_ERROR:</code><dd>Base64 encoding error.</p></div>
<div>
<p>
<dt><code>GNUTLS_E_BASE64_UNEXPECTED_HEADER_ERROR:</code><dd>Base64 unexpected header error.</p></div>
<div>
<p>Open Source Used In USC GAN R2.10 Application Software R2.10.34.9</p></div>
<div>
<p>638</p></div>

`GNUTLS_E_CERTIFICATE_ERROR:` Error in the certificate.

`GNUTLS_E_CERTIFICATE_KEY_MISMATCH:` The certificate and the given key do not match.

`GNUTLS_E_COMPRESSION_FAILED:` Compression of the TLS record packet has failed.

`GNUTLS_E_CONSTRAINT_ERROR:` Some constraint limits were reached.

`GNUTLS_E_CRYPTO_ALREADY_REGISTERED:` There is already a crypto algorithm with lower priority.

`GNUTLS_E_DB_ERROR:` Error in Database backend.

`GNUTLS_E_DECOMPRESSION_FAILED:` Decompression of the TLS record packet has failed.

`GNUTLS_E_DECRYPTION_FAILED:` Decryption has failed.

`GNUTLS_E_DH_PRIME_UNACCEPTABLE:` The Diffie-Hellman prime sent by the server is not acceptable (not long enough).

`GNUTLS_E_ENCRYPTION_FAILED:` Encryption has failed.

`GNUTLS_E_ERROR_IN_FINISHED_PACKET:` An error was encountered at the TLS Finished packet calculation.

`GNUTLS_E_EXPIRED:` The requested session has expired.

`GNUTLS_E_FATAL_ALERT_RECEIVED:` A TLS fatal alert has been received.

`GNUTLS_E_FILE_ERROR:` Error while reading file.

`GNUTLS_E_GOT_APPLICATION_DATA:` TLS Application data were received, while expecting handshake data.

`GNUTLS_E_HANDSHAKE_TOO_LARGE:` The handshake data size is too large (DoS?), check `gnutls_handshake_set_max_packet_length()`.

`GNUTLS_E_HASH_FAILED:` Hashing has failed.

`GNUTLS_E_IA_VERIFY_FAILED:` Verifying TLS/IA phase checksum failed

`GNUTLS_E_ILLEGAL_SRP_USERNAME:` The SRP username supplied is illegal.

`GNUTLS_E_INCOMPATIBLE_GCRYPT_LIBRARY:` The gcrypt library version

is too old.

`GNUTLS_E_INCOMPATIBLE_LIBTASN1_LIBRARY:` The tasn1 library version is too old.

`GNUTLS_E_INIT_LIBEXTRA:` The initialization of GnuTLS-extra has failed.

`GNUTLS_E_INSUFFICIENT_CREDENTIALS:` Insufficient credentials for that request.

`GNUTLS_E_INTERNAL_ERROR:` GnuTLS internal error.

`GNUTLS_E_INTERRUPTED:` Function was interrupted.

`GNUTLS_E_INVALID_PASSWORD:` The given password contains invalid characters.

`GNUTLS_E_INVALID_REQUEST:` The request is invalid.

`GNUTLS_E_INVALID_SESSION:` The specified session has been invalidated for some reason.

`GNUTLS_E_KEY_USAGE_VIOLATION:` Key usage violation in certificate has been detected.

`GNUTLS_E_LARGE_PACKET:` A large TLS record packet was received.

`GNUTLS_E_LIBRARY_VERSION_MISMATCH:` The GnuTLS library version does not match the GnuTLS-extra library version.

`GNUTLS_E_LZO_INIT_FAILED:` The initialization of LZO has failed.

`GNUTLS_E_MAC_VERIFY_FAILED:` The Message Authentication Code verification failed.

`GNUTLS_E_MEMORY_ERROR:` Internal error in memory allocation.

`GNUTLS_E_MPI_PRINT_FAILED:` Could not export a large integer.

`GNUTLS_E_MPI_SCAN_FAILED:` The scanning of a large integer has failed.

`GNUTLS_E_NO_CERTIFICATE_FOUND:` The peer did not send any certificate.

`GNUTLS_E_NO_CIPHER_SUITES:` No supported cipher suites have been found.

`GNUTLS_E_NO_COMPRESSION_ALGORITHMS:` No supported compression algorithms have been found.

<dt><code>GNUTLS_E_NO_TEMPORARY_DH_PARAMS:</code><dd>No temporary DH parameters were found.

<dt><code>GNUTLS_E_NO_TEMPORARY_RSA_PARAMS:</code><dd>No temporary RSA parameters were found.

<dt><code>GNUTLS_E_OPENPGP_FINGERPRINT_UNSUPPORTED:</code><dd>The OpenPGP fingerprint is not supported.

<dt><code>GNUTLS_E_OPENPGP_GETKEY_FAILED:</code><dd>Could not get OpenPGP key.

<dt><code>GNUTLS_E_OPENPGP_KEYRING_ERROR:</code><dd>Error loading the keyring.

<dt><code>GNUTLS_E_OPENPGP_SUBKEY_ERROR:</code><dd>Could not find OpenPGP subkey.

<dt><code>GNUTLS_E_OPENPGP_UID_REVOKED:</code><dd>The OpenPGP User ID is revoked.

<dt><code>GNUTLS_E_PKCS1_WRONG_PAD:</code><dd>Wrong padding in PKCS1 packet.

<dt><code>GNUTLS_E_PK_DECRYPTION_FAILED:</code><dd>Public key decryption has failed.

<dt><code>GNUTLS_E_PK_ENCRYPTION_FAILED:</code><dd>Public key encryption has failed.

<dt><code>GNUTLS_E_PK_SIGN_FAILED:</code><dd>Public key signing has failed.

<dt><code>GNUTLS_E_PK_SIG_VERIFY_FAILED:</code><dd>Public key signature verification has failed.

<dt><code>GNUTLS_E_PULL_ERROR:</code><dd>Error in the pull function.

<dt><code>GNUTLS_E_PUSH_ERROR:</code><dd>Error in the push function.

<dt><code>GNUTLS_E_RANDOM_FAILED:</code><dd>Failed to acquire random data.

<dt><code>GNUTLS_E_RECEIVED_ILLEGAL_EXTENSION:</code><dd>An illegal TLS extension was received.

<dt><code>GNUTLS_E_RECEIVED_ILLEGAL_PARAMETER:</code><dd>An illegal parameter has been received.

<dt><code>GNUTLS_E_RECORD_LIMIT_REACHED:</code><dd>The upper limit of record packet sequence numbers has been reached. Wow!

<dt><code>GNUTLS_E_REHANDSHAKE:</code><dd>Rehandshake was requested by the peer.

<dt><code>GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE:</code><dd>The requested data were not available.

<dt><code>GNUTLS_E_SHORT_MEMORY_BUFFER:</code><dd>The given memory buffer is too short to hold parameters.

<dt><code>GNUTLS_E_SRP_PWD_ERROR:</code><dd>Error in password file.

<dt><code>GNUTLS_E_SRP_PWD_PARSING_ERROR:</code><dd>Parsing error in password file.

<dt><code>GNUTLS_E_SUCCESS:</code><dd>Success.

<dt><code>GNUTLS_E_TOO_MANY_EMPTY_PACKETS:</code><dd>Too many empty record packets have been received.

<dt><code>GNUTLS_E_UNEXPECTED_HANDSHAKE_PACKET:</code><dd>An unexpected TLS handshake packet was received.

<dt><code>GNUTLS_E_UNEXPECTED_PACKET:</code><dd>An unexpected TLS packet was received.

<dt><code>GNUTLS_E_UNEXPECTED_PACKET_LENGTH:</code><dd>A TLS packet with unexpected length was received.

<dt><code>GNUTLS_E_UNKNOWN_ALGORITHM:</code><dd>The specified algorithm or protocol is unknown.

<dt><code>GNUTLS_E_UNKNOWN_CIPHER_SUITE:</code><dd>Could not negotiate a supported cipher suite.

<dt><code>GNUTLS_E_UNKNOWN_CIPHER_TYPE:</code><dd>The cipher type is unsupported.

<dt><code>GNUTLS_E_UNKNOWN_COMPRESSION_ALGORITHM:</code><dd>Could not negotiate a supported compression method.

<dt><code>GNUTLS_E_UNKNOWN_HASH_ALGORITHM:</code><dd>The hash algorithm is unknown.

<dt><code>GNUTLS_E_UNKNOWN_PKCS_BAG_TYPE:</code><dd>The PKCS structure's bag type is unknown.

<dt><code>GNUTLS_E_UNKNOWN_PKCS_CONTENT_TYPE:</code><dd>The PKCS structure's content type is unknown.

<dt><code>GNUTLS_E_UNKNOWN_PK_ALGORITHM:</code><dd>An unknown public key algorithm was encountered.

<dt><code>GNUTLS_E_UNSUPPORTED_CERTIFICATE_TYPE:</code><dd>The certificate type is not supported.

<dt><code>GNUTLS_E_UNSUPPORTED_VERSION_PACKET:</code><dd>A record packet with illegal version was received.

`GNUTLS_E_UNWANTED_ALGORITHM:` An algorithm that is not enabled was negotiated.

`GNUTLS_E_WARNING_ALERT_RECEIVED:` A TLS warning alert has been received.

`GNUTLS_E_WARNING_IA_FPHF_RECEIVED:` Received a TLS/IA Final Phase Finished message

`GNUTLS_E_WARNING_IA_IPHF_RECEIVED:` Received a TLS/IA Intermediate Phase Finished message

`GNUTLS_E_X509_UNKNOWN_SAN:` Unknown Subject Alternative name in X.509 certificate.

`GNUTLS_E_X509_UNSUPPORTED_ATTRIBUTE:` The certificate has unsupported attributes.

`GNUTLS_E_X509_UNSUPPORTED_CRITICAL_EXTENSION:` Unsupported critical extension in X.509 certificate.

`GNUTLS_E_X509_UNSUPPORTED_OID:` The OID is not supported.

[All-the-supported-ciphersuites-in-GnuTLS](#)

Next: [Guile Bindings](#),

Previous: [Function reference](#),

Up: [Top](#)

10 All the Supported Ciphersuites in `GnuTLS`

[Ciphersuites](#) [index-Ciphersuites-601](#)

Available cipher suites:

TLS_ANON_DH_ARCFOUR_MD5
0x00 0x18
SSL3.0

TLS_ANON_DH_3DES_EDE_CBC_SHA1
0x00 0x1b
SSL3.0

TLS_ANON_DH_AES_128_CBC_SHA1
0x00 0x34

```

</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_ANON_DH_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x3a
</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_ANON_DH_CAMELLIA_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x46
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_ANON_DH_CAMELLIA_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x89
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_PSK_SHA_ARCFOUR_SHA1
</td><td valign="top" width="20%">0x00 0x8a
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_PSK_SHA_3DES_EDE_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x8b
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_PSK_SHA_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x8c
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_PSK_SHA_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x8d
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_PSK_SHA_ARCFOUR_SHA1
</td><td valign="top" width="20%">0x00 0x8e
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_PSK_SHA_3DES_EDE_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x8f
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_PSK_SHA_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x90
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_PSK_SHA_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x91
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_3DES_EDE_CBC_SHA1
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</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0xc0 0x1d
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0xc0 0x20
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_DSS_3DES_EDE_CBC_SHA1
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</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_RSA_3DES_EDE_CBC_SHA1
</td><td valign="top" width="20%">0xc0 0x1b

```

```

</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_DSS_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0xc0 0x1f
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_RSA_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0xc0 0x1e
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_DSS_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0xc0 0x22
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<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_SRP_SHA_RSA_AES_256_CBC_SHA1
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</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_DSS_ARCFOUR_SHA1
</td><td valign="top" width="20%">0x00 0x66
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_DSS_3DES_EDE_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x13
</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_DSS_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x32
</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_DSS_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x38
</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_DSS_CAMELLIA_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x44
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_DSS_CAMELLIA_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x87
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_RSA_3DES_EDE_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x16
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<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_RSA_AES_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x33
</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_RSA_AES_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x39
</td><td valign="top" width="20%">SSL3.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_RSA_CAMELLIA_128_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x45
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_DHE_RSA_CAMELLIA_256_CBC_SHA1
</td><td valign="top" width="20%">0x00 0x88
</td><td valign="top" width="20%">TLS1.0
<br></td></tr><tr align="left"><td valign="top" width="60%">TLS_RSA_NULL_MD5
</td><td valign="top" width="20%">0x00 0x01

```

SSL3.0	TLS_RSA_EXPORT_ARCFOUR_40_MD5
0x00 0x03	
SSL3.0	TLS_RSA_ARCFOUR_SHA1
0x00 0x05	
SSL3.0	TLS_RSA_ARCFOUR_MD5
0x00 0x04	
SSL3.0	TLS_RSA_3DES_EDE_CBC_SHA1
0x00 0x0a	
SSL3.0	TLS_RSA_AES_128_CBC_SHA1
0x00 0x2f	
SSL3.0	TLS_RSA_AES_256_CBC_SHA1
0x00 0x35	
SSL3.0	TLS_RSA_CAMELLIA_128_CBC_SHA1
0x00 0x41	
TLS1.0	TLS_RSA_CAMELLIA_256_CBC_SHA1
0x00 0x84	
TLS1.0	

Available certificate types:

- X.509
- OPENPGP

Available protocols:

- SSL3.0
- TLS1.0
- TLS1.1
- TLS1.2

Available ciphers:

- AES-256-CBC
- AES-128-CBC
- 3DES-CBC
- DES-CBC
- ARCFOUR-128

- ARCFOUR-40
- RC2-40
- CAMELLIA-256-CBC
- CAMELLIA-128-CBC
- NULL

<p>Available MAC algorithms:

-
- SHA1
- MD5
- SHA256
- SHA384
- SHA512
- MD2
- RIPEMD160
- NULL

<p>Available key exchange methods:

-
- ANON-DH
- RSA
- RSA-EXPORT
- DHE-RSA
- DHE-DSS
- SRP-DSS
- SRP-RSA
- SRP
- PSK
- DHE-PSK

<p>Available public key algorithms:

-
- RSA
- DSA

<p>Available public key signature algorithms:

-
- RSA-SHA
- RSA-SHA256
- RSA-SHA384
- RSA-SHA512
- RSA-RMD160
- DSA-SHA
- RSA-MD5

RSA-MD2

<p>Available compression methods:

DEFLATE

NULL

<p>Some additional information regarding some of the algorithms:

<dl>

<dt><code>RSA</code><dd>RSA is public key cryptosystem designed by Ronald Rivest, Adi Shamir and Leonard Adleman. It can be used with any hash functions.

<dt><code>DSA</code><dd>DSA is the USA's Digital Signature Standard. It uses only the SHA-1 hash algorithm.

<dt><code>MD2</code><dd>MD2 is a cryptographic hash algorithm designed by Ron Rivest. It is optimized for 8-bit processors. Outputs 128 bits of data. There are no known weaknesses of this algorithm but since this algorithm is rarely used and not really studied it should not be used today.

<dt><code>MD5</code><dd>MD5 is a cryptographic hash algorithm designed by Ron Rivest. Outputs 128 bits of data. It is considered to be broken.

<dt><code>SHA-1</code><dd>SHA is a cryptographic hash algorithm designed by NSA. Outputs 160 bits of data. It is also considered to be broken, though no practical attacks have been found.

<dt><code>RMD160</code><dd>RIPEMD is a cryptographic hash algorithm developed in the framework of the EU project RIPE. Outputs 160 bits of data.

</dl>

<!-- Guile Bindings -->

<!-- Documentation of the GNU Guile bindings. -->

<div class="node">

<p><hr>

Next: Internal architecture of GnuTLS,&

Previous: All the supported ciphersuites in GnuTLS,&

Up: Top

</div>

11 Guile Bindings

This chapter describes the GNU Guile Scheme programming interface to GnuTLS. The reader is assumed to have basic knowledge of the protocol and library. Details missing from this chapter may be found in the C API reference.

At this stage, not all the C functions are available from Scheme, but a large subset thereof is available.

>

- [Guile Preparations](#): Note on installation and environment.
- [Guile API Conventions](#): Naming conventions and other idiosyncrasies.
- [Guile Examples](#): Quick start.
- [Guile Reference](#): The Scheme GnuTLS programming interface.

<!-- ***** -->

<div class="node">

<p><hr>

Next: Guile API Conventions,
Up: Guile Bindings</p>

</div>

11.1 Guile Preparations

The GnuTLS Guile bindings are by default installed under the GnuTLS installation directory (e.g., typically

`/usr/local/share/guile/site/`). Normally Guile will not find the module there without help. You may experience something like this:

```
$ guile
guile> (use-modules (gnutls))
&lt;unnamed port>; no code for module (gnutls)
guile>
```

There are two ways to solve this. The first is to make sure that when building GnuTLS, the Guile bindings will be installed in the same place where Guile looks. You may do this by using the `--with-guile-site-dir` parameter as follows:

```
<pre class="example"> $ ./configure --with-guile-site-dir=no
</pre>
```

<p>This will instruct GnuTLS to attempt to install the Guile bindings where Guile will look for them. It will use `guile-config info pkgdatadir` to learn the path to use.

<p>If Guile was installed into `/usr`, you may also install GnuTLS using the same prefix:

```
<pre class="example"> $ ./configure --prefix=/usr
</pre>
```

<p>If you want to specify the path to install the Guile bindings you can also specify the path directly:

```
<pre class="example"> $ ./configure --with-guile-site-dir=/opt/guile/share/guile/site
</pre>
```

<p>The second solution requires some more work but may be easier to use if you do not have system administrator rights to your machine. You need to instruct Guile so that it finds the GnuTLS Guile bindings.

Either use the `GUILE_LOAD_PATH` environment variable as follows:

```
<pre class="example"> $ GUILE_LOAD_PATH="/usr/local/share/guile/site:$GUILE_LOAD_PATH" guile
  guile>; (use-modules (gnutls))
  guile>;
</pre>
```

<p>Alternatively, you can modify Guile's `%load-path` variable (see [Guile's run-time options](guile.html#Build-Config)).

<p>At this point, you might get an error regarding

<samp>libguile-gnutls-v-0</samp> similar to:

```
<pre class="example"> gnutls.scm:361:1: In procedure dynamic-link in expression (load-extension "libguile-
gnutls-v-0" "scm_init_gnutls"):
  gnutls.scm:361:1: file: "libguile-gnutls-v-0", message: "libguile-gnutls-v-0.so: cannot open shared object file: No
such file or directory"
</pre>
```

<p>In this case, you will need to modify the run-time linker path, for example as follows:

```
<pre class="example"> $ LD_LIBRARY_PATH=/usr/local/lib GUILE_LOAD_PATH=/usr/local/share/guile/site
guile
  guile>; (use-modules (gnutls))
  guile>;
</pre>
```

```
<!-- ***** -->
```

```
<div class="node">
```

```
<a name="Guile-API-Conventions"></a>
```

```
<p><hr>
```

Next: Guile Examples,
Previous: Guile Preparations,
Up: Guile Bindings

</div>

<h3 class="section">11.2 Guile API Conventions</h3>

<p>This chapter details the conventions used by Guile API, as well as specificities of the mapping of the C API to Scheme.

<ul class="menu">

Enumerates and Constants: Representation of C-side constants.

Procedure Names: Naming conventions.

Representation of Binary Data: Binary data buffers.

Input and Output: Input and output.

Exception Handling: Exceptions.

<div class="node">

<p><hr>

Next: Procedure Names,

Up: Guile API Conventions

</div>

<h4 class="subsection">11.2.1 Enumerates and Constants</h4>

<p>

Lots of enumerates and constants are used in the GnuTLS C API. For each C enumerate type, a disjoint Scheme type is used—thus, enumerate values and constants are not represented by Scheme symbols nor by integers. This makes it impossible to use an enumerate value of the wrong type on the Scheme side: such errors are automatically detected by type-checking.

<p>The enumerate values are bound to variables exported by the <code>(gnutls)</code> and <code>(gnutls extra)</code> modules. These variables are named according to the following convention:

All variable names are lower-case; the underscore <code>_</code> character used in the C API is replaced by hyphen <code>-</code>.

All variable names are prepended by the name of the enumerate type and the slash <code>/</code> character.

In some cases, the variable name is made more explicit than the one of the C API, e.g., by avoid abbreviations.

Consider for instance this C-side enumerate:

```
typedef enum
{
    GNUTLS_CRD_CERTIFICATE = 1,
    GNUTLS_CRD_ANON,
    GNUTLS_CRD_SRP,
    GNUTLS_CRD_PSK,
    GNUTLS_CRD_IA
} gnutls_credentials_type_t;
```

The corresponding Scheme values are bound to the following variables exported by the `(gnutls)` module:

```
credentials/certificate
credentials/anonymous
credentials/srp
credentials/psk
credentials/ia
```

Hopefully, most variable names can be deduced from this convention.

Scheme-side “enumerate” values can be compared using `eq?` (see [equality predicates](guile.html#Equality)). Consider the following example:

[index-session_002dcipher-604](#)

```
(let ((session (make-session connection-end/client)))
```

```
;;
;; ...
;;
```

```
;; Check the ciphering algorithm currently used by SESSION.
```

```
(if (eq? cipher/arcfour (session-cipher session))
```

```
    (format #t "We're using the ARCFOUR algorithm")))
```

In addition, all enumerate values can be converted to a human-readable string, in a type-specific way. For instance, `(cipher->string cipher/arcfour)` yields `"ARCFOUR 128"`, while `(key-usage->string key-usage/digital-signature)` yields `"digital-signature"`. Note that these strings may not be sufficient for use in a user interface since they are fairly concise and not internationalized.

```
<div class="node">
<a name="Procedure-Names"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Representation-of-Binary-Data">Representation of Binary
Data</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Enumerates-and-Constants">Enumerates and
Constants</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-API-Conventions">Guile API Conventions</a>

</div>
```

<h4 class="subsection">11.2.2 Procedure Names</h4>

<p>Unlike C functions in GnuTLS, the corresponding Scheme procedures are named in a way that is close to natural English. Abbreviations are also avoided. For instance, the Scheme procedure corresponding to <code>gnutls_certificate_set_dh_params</code> is named <code>set-certificate-credentials-dh-parameters!</code>. The <code>gnutls_</code> prefix is always omitted from variable names since a similar effect can be achieved using Guile's nifty binding renaming facilities, should it be needed (see Using Guile Modules).

<p>Often Scheme procedure names differ from C function names in a way that makes it clearer what objects they operate on. For example, the Scheme procedure named <code>set-session-transport-port!</code> corresponds to <code>gnutls_transport_set_ptr</code>, making it clear that this procedure applies to session.

```
<div class="node">
<a name="Representation-of-Binary-Data"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Input-and-Output">Input and Output</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Procedure-Names">Procedure Names</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-API-Conventions">Guile API Conventions</a>

</div>
```

<h4 class="subsection">11.2.3 Representation of Binary Data</h4>

<p>Many procedures operate on binary data. For instance, <code>pkcs3-import-dh-parameters</code> expects binary data as input and, similarly, procedures like <code>pkcs1-export-rsa-parameters</code> return binary data.

<p>
Binary data is represented on the Scheme side using SRFI-4 homogeneous vectors (see SRFI-4).
Although any type of homogeneous vector may be used, <code>u8vector</code>s

(i.e., vectors of bytes) are highly recommended.

As an example, generating and then exporting RSA parameters in the PEM format can be done as follows:

```
<p><a name="index-make_002drsa_002dparameters-607"></a><a name="index-pkcs1_002dexport_002drsa_002dparameters-608"></a><a name="index-x509_002dcertificate_002dformat_002fpem-609"></a>
<pre class="example"> (let* ((rsa-params (make-rsa-parameters 1024))
  (raw-data
    (pkcs1-export-rsa-parameters rsa-params
      x509-certificate-format/pem)))
  (uniform-vector-write raw-data (open-output-file "some-file.pem"))))
</pre>
```

For an example of OpenPGP key import from a file, see [Importing OpenPGP Keys Guile Example](#).

```
<div class="node">
<a name="Input-and-Output"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Exception-Handling">Exception Handling</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Representation-of-Binary-Data">Representation of Binary
Data</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-API-Conventions">Guile API Conventions</a>
</div>
```

11.2.4 Input and Output

[set-session-transport-port](#) and [set-session-transport-fd](#)

The underlying transport of a TLS session can be any Scheme input/output port (see [Ports and File Descriptors](#)). This has to be specified using

```
set-session-transport-port!
```

However, for better performance, a raw file descriptor can be specified, using `set-session-transport-fd!`. For instance, if the transport layer is a socket port over an OS-provided socket, you can use the `port->fdes` or `fileno` procedure to obtain the underlying file descriptor and pass it to `set-session-transport-fd!` (see [Ports and File Descriptors](#) `port->fdes` and `fileno`). This would work as follows:

```
pre class="example"> (let ((socket (socket PF_INET SOCK_STREAM 0))
  (session (make-session connection-end/client)))
```

```
::
```

```
:: Establish a TCP connection...
```

```
::
```

```
:: Use the file descriptor that underlies SOCKET.
```

```
(set-session-transport-fd! session (fileno socket)))
```

```
</pre>
```

```
<p><a name="index-session_002drecord_002dport-612"></a>
```

Once a TLS session is established, data can be communicated through it

(i.e., *via* the TLS record layer) using the port returned by

```
<code>session-record-port</code>:
```

```
<pre class="example"> (let ((session (make-session connection-end/client)))
```

```
::
```

```
:: Initialize the various parameters of SESSION, set up
```

```
:: a network connection, etc...
```

```
::
```

```
(let ((i/o (session-record-port session)))
```

```
(write "Hello peer!" i/o)
```

```
(let ((greetings (read i/o)))
```

```
:: ...
```

```
(bye session close-request/rdwr))))
```

```
</pre>
```

```
<p><a name="index-record_002dsend-613"></a><a name="index-record_002dreceive_0021-614"></a>
```

A lower-level I/O API is provided by `record-send` and

`record-receive!` which take an SRFI-4 vector to represent the

data sent or received. While it might improve performance, it is much

less convenient than the above and should rarely be needed.

```
<div class="node">
```

```
<a name="Exception-Handling"></a>
```

```
<p><hr>
```

Previous: [Input and Output](#),

Up: [Guile API Conventions](#)

```
</div>
```

```
<h4 class="subsection">11.2.5 Exception Handling</h4>
```

```
<p><a name="index-exceptions-615"></a><a name="index-errors-616"></a><a name="index-
```

```
g_t_0040code_007bgnutls_002derror_007d-617"></a><a name="index-error_002d_003estring-618"></a>
```

GnuTLS errors are implemented as Scheme exceptions (see [exceptions in Guile](#)). Each

time a GnuTLS function returns an error, an exception with key

```
<code>gnutls-error</code> is raised. The additional arguments that are
```

thrown include an error code and the name of the GnuTLS procedure that raised the exception. The error code is pretty much like an enumerate value: it is one of the `error/` variables exported by the `(gnutls)` module (see [Enumerates and Constants](#Enumerates-and-Constants)). Exceptions can be turned into error messages using the `error->string` procedure.

The following examples illustrates how GnuTLS exceptions can be handled:

```

<pre class="example"> (let ((session (make-session connection-end/server)))

;;
;; ...
;;

(catch 'gnutls-error
  (lambda ()
    (handshake session)
    (lambda (key err function . currently-unused)
      (format (current-error-port)
        "a GnuTLS error was raised by `~a': ~a~%"
        function (error->string err))))))
</pre>

```

Again, error values can be compared using `eq?`:

```

<pre class="example"> ;; `gnutls-error' handler.
(lambda (key err function . currently-unused)
  (if (eq? err error/fatal-alert-received)
      (format (current-error-port)
        "a fatal alert was caught!~%" )
      (format (current-error-port)
        "something bad happened: ~a~%"
        (error->string err))))
</pre>

```

Note that the `catch` handler is currently passed only 3 arguments but future versions might provide it with additional arguments. Thus, it must be prepared to handle more than 3 arguments, as in this example.

<!-- ***** -->

<div class="node">

<p><hr>

Next: Guile Reference,&

Previous: Guile API Conventions,&

Up: Guile Bindings

</div>

<h3 class="section">11.3 Guile Examples</h3>

<p>This chapter provides examples that illustrate common use cases.

<ul class="menu">

Anonymous Authentication Guile Example: Simplest client and server.

OpenPGP Authentication Guile Example: Using OpenPGP-based authentication.

Importing OpenPGP Keys Guile Example: Importing keys from files.

<div class="node">

<p><hr>

Next: OpenPGP Authentication Guile Example,

Up: Guile Examples

</div>

<h4 class="subsection">11.3.1 Anonymous Authentication Guile Example</h4>

<p><dfn>Anonymous authentication</dfn> is very easy to use. No certificates are needed by the communicating parties. Yet, it allows them to benefit from end-to-end encryption and integrity checks.

<p>The client-side code would look like this (assuming <var>some-socket</var> is bound to an open socket port):

<p>

<pre class="example"> ;; Client-side.

```
(let ((client (make-session connection-end/client)))
```

```
;; Use the default settings.
```

```
(set-session-default-priority! client)
```

```
;; Don't use certificate-based authentication.
```

```
(set-session-certificate-type-priority! client '())
```

```
;; Request the "anonymous Diffie-Hellman" key exchange method.
```

```
(set-session-kx-priority! client (list kx/anon-dh))
```

```

;; Specify the underlying socket.
(set-session-transport-fd! client (fileno some-socket))

;; Create anonymous credentials.
(set-session-credentials! client
  (make-anonymous-client-credentials))

;; Perform the TLS handshake with the server.
(handshake client)

;; Send data over the TLS record layer.
(write "hello, world!" (session-record-port client))

;; Terminate the TLS session.
(bye client close-request/rdwr))
</pre>
<p>The corresponding server would look like this (again, assuming
<var>some-socket</var> is bound to a socket port):

<p><a name="index-connection_002dend_002fserver-622"></a>
<pre class="example">  ;; Server-side.

(let ((server (make-session connection-end/server)))
  (set-session-default-priority! server)
  (set-session-certificate-type-priority! server '())
  (set-session-kx-priority! server (list kx/anon-dh))

  ;; Specify the underlying transport socket.
  (set-session-transport-fd! server (fileno some-socket))

  ;; Create anonymous credentials.
  (let ((cred (make-anonymous-server-credentials))
        (dh-params (make-dh-parameters 1024)))
    ;; Note: DH parameter generation can take some time.
    (set-anonymous-server-dh-parameters! cred dh-params)
    (set-session-credentials! server cred))

  ;; Perform the TLS handshake with the client.
  (handshake server)

  ;; Receive data over the TLS record layer.
  (let ((message (read (session-record-port server))))
    (format #t "received the following message: ~a~%"
      message)

    (bye server close-request/rdwr)))
</pre>
<p>This is it!
```

```

<div class="node">
<a name="OpenPGP-Authentication-Guile-Example"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Importing-OpenPGP-Keys-Guile-Example">Importing OpenPGP
Keys Guile Example</a>,
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Anonymous-Authentication-Guile-Example">Anonymous
Authentication Guile Example</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-Examples">Guile Examples</a>

</div>

```

11.3.2 OpenPGP Authentication Guile Example

GnuTLS allows users to authenticate using OpenPGP certificates. The relevant procedures are provided by the `(gnutls extra)` module. Using OpenPGP-based authentication is not more complicated than using anonymous authentication. It requires a bit of extra work, though, to import the OpenPGP public and private key of the client/server. Key import is omitted here and is left as an exercise to the reader (see [Importing OpenPGP Keys Guile Example](#Importing-OpenPGP-Keys-Guile-Example)).

Assuming `some-socket` is bound to an open socket port and `pub` and `sec` are bound to the client's OpenPGP public and secret key, respectively, client-side code would look like this:

```

<p><a name="index-certificate_002dtype_002fopenpgp-623"></a>
<pre class="example">  ;; Client-side.

```

```

(define %certs (list certificate-type/openpgp))

(let ((client (make-session connection-end/client))
      (cred (make-certificate-credentials)))
  (set-session-default-priority! client)

  ;; Choose OpenPGP certificates.
  (set-session-certificate-type-priority! client %certs)

  ;; Prepare appropriate client credentials.
  (set-certificate-credentials-openpgp-keys! cred pub sec)
  (set-session-credentials! client cred)

  ;; Specify the underlying transport socket.
  (set-session-transport-fd! client (fileno some-socket))

  (handshake client)
  (write "hello, world!" (session-record-port client))
  (bye client close-request/rdwr))

```

```
</pre>
```

<p>Similarly, server-side code would be along these lines:

```
<pre class="example"> ;; Server-side.
```

```
(define %certs (list certificate-type/openpgp))

(let ((server (make-session connection-end/server))
      (rsa (make-rsa-parameters 1024))
      (dh (make-dh-parameters 1024)))
  (set-session-default-priority! server)

  ;; Choose OpenPGP certificates.
  (set-session-certificate-type-priority! server %certs)

  (let ((cred (make-certificate-credentials)))
    ;; Prepare credentials with RSA and Diffie-Hellman parameters.
    (set-certificate-credentials-dh-parameters! cred dh)
    (set-certificate-credentials-rsa-export-parameters! cred rsa)
    (set-certificate-credentials-openpgp-keys! cred pub sec)
    (set-session-credentials! server cred))

  (set-session-transport-fd! server (fileno some-socket))

  (handshake server)
  (let ((msg (read (session-record-port server))))
    (format #t "received: ~a~%" msg)

    (bye server close-request/rdwr)))
```

```
</pre>
```

<p>In practice, generating RSA parameters (and Diffie-Hellman parameters) can take a long time. Thus, you may want to generate them once and store them in a file for future re-use (see [<code>pkcs1-export-rsa-parameters</code>](#Core-Interface) and [<code>pkcs1-import-rsa-parameters</code>](#Core-Interface)).

```
<div class="node">
```

```
<a name="Importing-OpenPGP-Keys-Guile-Example"></a>
```

```
<p><hr>
```

```
Previous:&nbsp;<a rel="previous" accesskey="p" href="#OpenPGP-Authentication-Guile-Example">OpenPGP
Authentication Guile Example</a>,&
```

```
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-Examples">Guile Examples</a>
```

```
</div>
```

```
<h4 class="subsection">11.3.3 Importing OpenPGP Keys Guile Example</h4>
```

<p>The following example provides a simple way of importing
“ASCII-armored” OpenPGP keys from files, using the

`import-openpgp-certificate` and `import-openpgp-private-key` procedures provided by the `(gnutls extra)` module.

```
<p><a name="index-openpgp_002dcertificate_002dformat_002fbase64-624"></a><a name="index-openpgp_002dcertificate_002dformat_002fraw-625"></a>
<pre class="example"> (use-modules (srfi srfi-4)
                          (gnutls extra))
```

```
(define (import-key-from-file import-proc file)
  ;; Import OpenPGP key from FILE using IMPORT-PROC.
```

```
  ;; Prepare a u8vector large enough to hold the raw
  ;; key contents.
```

```
(let* ((size (stat:size (stat path)))
       (raw (make-u8vector size)))
```

```
  ;; Fill in the u8vector with the contents of FILE.
  (uniform-vector-read! raw (open-input-file file))
```

```
  ;; Pass the u8vector to the import procedure.
  (import-proc raw openpgp-certificate-format/base64)))
```

```
(define (import-public-key-from-file file)
  (import-key-from-file import-openpgp-certificate file))
```

```
(define (import-private-key-from-file file)
  (import-key-from-file import-openpgp-private-key file))
```

```
</pre>
```

The procedures `import-public-key-from-file` and `import-private-key-from-file` can be passed a file name. They return an OpenPGP public key and private key object, respectively (see [OpenPGP key objects](#Extra-Interface)).

```
<!-- ***** -->
```

```
<div class="node">
```

```
<a name="Guile-Reference"></a>
```

```
<p><hr>
```

```
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Guile-Examples">Guile Examples</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-Bindings">Guile Bindings</a>
```

```
</div>
```

```
<h3 class="section">11.4 Guile Reference</h3>
```

This chapter documents GnuTLS Scheme procedures available to Guile programmers.

```

<ul class="menu">
<li><a accesskey="1" href="#Core-Interface">Core Interface</a>: Bindings for core GnuTLS.
<li><a accesskey="2" href="#Extra-Interface">Extra Interface</a>: Bindings for GnuTLS-Extra.
</ul>

```

```

<div class="node">
<a name="Core-Interface"></a>
<p><hr>
Next:&nbsp;<a rel="next" accesskey="n" href="#Extra-Interface">Extra Interface</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-Reference">Guile Reference</a>

</div>

```

11.4.1 Core Interface

This section lists the Scheme procedures exported by the `(gnutls)` module (see [The Guile module system](guile.html#The-Guile-module-system)). This module is licenced under the GNU Lesser General Public Licence, version 2.1 or later.

```

<!-- Automatically generated, do not edit. -->
<!-- snarfed from ../guile/src/core.c:2784 -->
<div class="defun">
&mdash; Scheme Procedure: set-log-level!<var> levelindex-set\_002dlog\_002dlevel\_0021-626</a></var>  

<blockquote><p>Enable GnuTLS logging up to <var>level (an integer).
</p></blockquote></div>

```

```

<!-- snarfed from ../guile/src/core.c:2766 -->
<div class="defun">
&mdash; Scheme Procedure: set-log-procedure!<var> procindex-set\_002dlog\_002dprocedure\_0021-627</a></var>  

<blockquote><p>Use <var>proc (a two-argument procedure) as the global GnuTLS log procedure.
</p></blockquote></div>

```

```

<!-- snarfed from ../guile/src/core.c:2696 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-subject-alternative-name<var> certindex-x509\_002dcertificate\_002dsubject\_002dalternative\_002dname-628</a></var>  

<blockquote><p>Return two values: the alternative name type for <var>cert (i.e., one of the x509-subject-alternative-name values) and the actual subject alternative name (a string) at <var>index. Both values are #f if no alternative name is available at <var>index.
</p></blockquote></div>

```

```

<!-- snarfed from ../guile/src/core.c:2661 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-subject-key-id<var> certindex-x509\_002dcertificate\_002dsubject\_002dkey\_002did-629</a></var>  


```

```
<blockquote><p>Return the subject key ID (a u8vector) for <var>cert</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2630 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>x509-certificate-authority-key-id</b><var> cert<a name="index-
x509_002dcertificate_002dauthority_002dkey_002did-630"></a></var><br>
```

```
<blockquote><p>Return the key ID (a u8vector) of the X.509 certificate authority of <var>cert</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2598 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>x509-certificate-key-id</b><var> cert<a name="index-
x509_002dcertificate_002dkey_002did-631"></a></var><br>
```

```
<blockquote><p>Return a statistically unique ID (a u8vector) for <var>cert</var> that depends on its public key
parameters. This is normally a 20-byte SHA-1 hash.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2576 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>x509-certificate-version</b><var> cert<a name="index-
x509_002dcertificate_002dversion-632"></a></var><br>
```

```
<blockquote><p>Return the version of <var>cert</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2549 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>x509-certificate-key-usage</b><var> cert<a name="index-
x509_002dcertificate_002dkey_002dusage-633"></a></var><br>
```

```
<blockquote><p>Return the key usage of <var>cert</var> (i.e., a list of <code>key-usage</code> values), or the
empty list if <var>cert</var> does not contain such information.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2526 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>x509-certificate-public-key-algorithm</b><var> cert<a name="index-
x509_002dcertificate_002dpublic_002dkey_002dalgorithm-634"></a></var><br>
```

```
<blockquote><p>Return two values: the public key algorithm (i.e., one of the <code>pk-algorithm</code> values)
of <var>cert</var> and the number of bits used.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2503 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>x509-certificate-signature-algorithm</b><var> cert<a name="index-
x509_002dcertificate_002dsignature_002dalgorithm-635"></a></var><br>
```

```
<blockquote><p>Return the signature algorithm used by <var>cert</var> (i.e., one of the <code>sign-
algorithm</code> values).
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2471 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-matches-hostname?<var> cert hostname<a name="index-
x509_002dcertificate_002dmatches_002dhostname_003f-636"></a></var><br>
<blockquote><p>Return true if <var>cert</var> matches <var>hostname</var>, a string denoting a DNS host
name. This is the basic implementation of <a href="http://tools.ietf.org/html/rfc2818">RFC 2818</a> (aka.
HTTPS).
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2453 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-issuer-dn-oid<var> cert index<a name="index-
x509_002dcertificate_002dissuer_002ddn_002doid-637"></a></var><br>
<blockquote><p>Return the OID (a string) at <var>index</var> from <var>cert</var>'s issuer DN. Return
<code>#f</code> if no OID is available at <var>index</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2439 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-dn-oid<var> cert index<a name="index-
x509_002dcertificate_002ddn_002doid-638"></a></var><br>
<blockquote><p>Return OID (a string) at <var>index</var> from <var>cert</var>. Return <code>#f</code> if no
OID is available at <var>index</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2377 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-issuer-dn<var> cert<a name="index-
x509_002dcertificate_002dissuer_002ddn-639"></a></var><br>
<blockquote><p>Return the distinguished name (DN) of X.509 certificate <var>cert</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2364 -->
<div class="defun">
&mdash; Scheme Procedure: x509-certificate-dn<var> cert<a name="index-x509_002dcertificate_002ddn-
640"></a></var><br>
<blockquote><p>Return the distinguished name (DN) of X.509 certificate <var>cert</var>. The form of the DN is
as described in <a href="http://tools.ietf.org/html/rfc2253">RFC 2253</a>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:2274 -->
<div class="defun">
&mdash; Scheme Procedure: pkcs8-import-x509-private-key<var> data format </var>[<var>pass
</var>[<var>encrypted</var>]]<var><a name="index-pkcs8_002dimport_002dx509_002dprivate_002dkey-
641"></a></var><br>
<blockquote><p>Return a new X.509 private key object resulting from the import of <var>data</var> (a uniform
array) according to <var>format</var>. Optionally, if <var>pass</var> is not <code>#f</code>, it should be a
```


string denoting a passphrase. `<var>encrypted</var>` tells whether the private key is encrypted (`<code>#t</code>` by default).

`</p></blockquote></div>`

`<!-- snarfed from ../guile/src/core.c:2225 -->`

`<div class="defun">`

`— Scheme Procedure: import-x509-private-key<var> data format</var>
`

`<blockquote><p>Return a new X.509 private key object resulting from the import of <var>data</var> (a uniform array) according to <var>format</var>.`

`</p></blockquote></div>`

`<!-- snarfed from ../guile/src/core.c:2180 -->`

`<div class="defun">`

`— Scheme Procedure: import-x509-certificate<var> data format</var>
`

`<blockquote><p>Return a new X.509 certificate object resulting from the import of <var>data</var> (a uniform array) according to <var>format</var>.`

`</p></blockquote></div>`

`<!-- snarfed from ../guile/src/core.c:2152 -->`

`<div class="defun">`

`— Scheme Procedure: server-session-psk-username<var> session</var>
`

`<blockquote><p>Return the username associated with PSK server session <var>session</var>.`

`</p></blockquote></div>`

`<!-- snarfed from ../guile/src/core.c:2108 -->`

`<div class="defun">`

`— Scheme Procedure: set-psk-client-credentials!<var> cred username key key-format</var>
`

`<blockquote><p>Set the client credentials for <var>cred</var>, a PSK client credentials object.`

`</p></blockquote></div>`

`<!-- snarfed from ../guile/src/core.c:2088 -->`

`<div class="defun">`

`— Scheme Procedure: make-psk-client-credentials<var></var>
`

`<blockquote><p>Return a new PSK client credentials object.`

`</p></blockquote></div>`

`<!-- snarfed from ../guile/src/core.c:2060 -->`

`<div class="defun">`

`— Scheme Procedure: set-psk-server-credentials-file!<var> cred file</var>
`

`<blockquote><p>Use <var>file</var> as the password file for PSK server credentials <var>cred</var>.`

`</p></blockquote></div>`

<!-- snarfed from ../guile/src/core.c:2040 -->

<div class="defun">

— Scheme Procedure: **make-psk-server-credentials**<var></var>

<blockquote><p>Return new PSK server credentials.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1752 -->

<div class="defun">

— Scheme Procedure: **peer-certificate-status**<var> session</var>

<blockquote><p>Verify the peer certificate for <var>session</var> and return a list of <code>certificate-status</code> values (such as <code>certificate-status/revoked</code>), or the empty list if the certificate is valid.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1724 -->

<div class="defun">

— Scheme Procedure: **set-certificate-credentials-verify-flags!**<var> cred

<var>[<var>flags...</var>]<var><a name="index-

set_002dcertificate_002dcredentials_002dverify_002dflags_0021-650"></var>

<blockquote><p>Set the certificate verification flags to <var>flags</var>, a series of <code>certificate-verify</code> values.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1702 -->

<div class="defun">

— Scheme Procedure: **set-certificate-credentials-verify-limits!**<var> cred max-bits max-depth</var>

<blockquote><p>Set the verification limits of <code>peer-certificate-status</code> for certificate credentials <var>cred</var> to <var>max_bits</var> bits for an acceptable certificate and <var>max_depth</var> as the maximum depth of a certificate chain.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1665 -->

<div class="defun">

— Scheme Procedure: **set-certificate-credentials-x509-keys!**<var> cred certs privkey</var>

<blockquote><p>Have certificate credentials <var>cred</var> use the X.509 certificates listed in <var>certs</var> and X.509 private key <var>privkey</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1619 -->

<div class="defun">

— Scheme Procedure: **set-certificate-credentials-x509-key-data!**<var> cred cert key format</var>

<blockquote><p>Use X.509 certificate <var>cert</var> and private key <var>key</var>, both uniform arrays containing the X.509 certificate and key in format <var>format</var>, for certificate credentials <var>cred</var>.

</p></blockquote></div>

```
<!-- snarfed from ../guile/src/core.c:1599 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-certificate-credentials-x509-crl-data!</b><var> cred data format<a
name="index-set_002dcertificate_002dcredentials_002dx509_002dcrl_002ddata_0021-654"></a></var><br>
<blockquote><p>Use <var>data</var> (a uniform array) as the X.509 CRL (certificate revocation list) database for
<var>cred</var>. On success, return the number of CRLs processed.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1580 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-certificate-credentials-x509-trust-data!</b><var> cred data format<a
name="index-set_002dcertificate_002dcredentials_002dx509_002dtrust_002ddata_0021-655"></a></var><br>
<blockquote><p>Use <var>data</var> (a uniform array) as the X.509 trust database for <var>cred</var>. On
success, return the number of certificates processed.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1561 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-certificate-credentials-x509-crl-file!</b><var> cred file format<a
name="index-set_002dcertificate_002dcredentials_002dx509_002dcrl_002dfile_0021-656"></a></var><br>
<blockquote><p>Use <var>file</var> as the X.509 CRL (certificate revocation list) file for certificate credentials
<var>cred</var>. On success, return the number of CRLs processed.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1542 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-certificate-credentials-x509-trust-file!</b><var> cred file format<a
name="index-set_002dcertificate_002dcredentials_002dx509_002dtrust_002dfile_0021-657"></a></var><br>
<blockquote><p>Use <var>file</var> as the X.509 trust file for certificate credentials <var>cred</var>. On
success, return the number of certificates processed.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1500 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-certificate-credentials-x509-key-files!</b><var> cred cert-file key-file
format<a name="index-set_002dcertificate_002dcredentials_002dx509_002dkey_002dfiles_0021-
658"></a></var><br>
<blockquote><p>Use <var>file</var> as the password file for PSK server credentials <var>cred</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1479 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-certificate-credentials-rsa-export-parameters!</b><var> cred rsa-params<a
name="index-set_002dcertificate_002dcredentials_002drsa_002dexport_002dparameters_0021-
659"></a></var><br>
<blockquote><p>Use RSA parameters <var>rsa_params</var> for certificate credentials <var>cred</var>.
</p></blockquote></div>
```

<!-- snarfed from ../guile/src/core.c:1458 -->

<div class="defun">

— Scheme Procedure: **set-certificate-credentials-dh-parameters!**
<var> cred dh-params</var>

<blockquote><p>Use Diffie-Hellman parameters <var>dh_params</var> for certificate credentials

<var>cred</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1438 -->

<div class="defun">

— Scheme Procedure: **make-certificate-credentials**
<var></var>

<blockquote><p>Return new certificate credentials (i.e., for use with either X.509 or OpenPGP certificates.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1332 -->

<div class="defun">

— Scheme Procedure: **pkcs1-export-rsa-parameters**
<var> rsa-params format</var>

<blockquote><p>Export Diffie-Hellman parameters <var>rsa_params</var> in PKCS1 format according for <var>format</var> (an `x509-certificate-format` value). Return a `u8vector` containing the result.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1287 -->

<div class="defun">

— Scheme Procedure: **pkcs1-import-rsa-parameters**
<var> array format</var>

<blockquote><p>Import Diffie-Hellman parameters in PKCS1 format (further specified by <var>format</var>, an `x509-certificate-format` value) from <var>array</var> (a homogeneous array) and return a new `rsa-params` object.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1255 -->

<div class="defun">

— Scheme Procedure: **make-rsa-parameters**
<var> bits</var>

<blockquote><p>Return new RSA parameters.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:1235 -->

<div class="defun">

— Scheme Procedure: **set-anonymous-server-dh-parameters!**
<var> cred dh-params</var>

<blockquote><p>Set the Diffie-Hellman parameters of anonymous server credentials <var>cred</var>.

</p></blockquote></div>

```
<!-- snarfed from ../guile/src/core.c:1215 -->
<div class="defun">
&mdash; Scheme Procedure: <b>make-anonymous-client-credentials</b><var><a name="index-
make_002danonymous_002dclient_002dcredentials-666"></a></var><br>
<blockquote><p>Return anonymous client credentials.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1197 -->
<div class="defun">
&mdash; Scheme Procedure: <b>make-anonymous-server-credentials</b><var><a name="index-
make_002danonymous_002dserver_002dcredentials-667"></a></var><br>
<blockquote><p>Return anonymous server credentials.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1176 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-session-dh-prime-bits!</b><var> session bits<a name="index-
set_002dsession_002ddh_002dprime_002dbits_0021-668"></a></var><br>
<blockquote><p>Use <var>bits</var> DH prime bits for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1154 -->
<div class="defun">
&mdash; Scheme Procedure: <b>pkcs3-export-dh-parameters</b><var> dh-params format<a name="index-
pkcs3_002dexport_002ddh_002dparameters-669"></a></var><br>
<blockquote><p>Export Diffie-Hellman parameters <var>dh_params</var> in PKCS3 format according for
<var>format</var> (an <code>x509-certificate-format</code> value). Return a <code>u8vector</code> containing
the result.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1109 -->
<div class="defun">
&mdash; Scheme Procedure: <b>pkcs3-import-dh-parameters</b><var> array format<a name="index-
pkcs3_002dimport_002ddh_002dparameters-670"></a></var><br>
<blockquote><p>Import Diffie-Hellman parameters in PKCS3 format (further specified by <var>format</var>, an
<code>x509-certificate-format</code> value) from <var>array</var> (a homogeneous array) and return a new
<code>dh-params</code> object.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:1077 -->
<div class="defun">
&mdash; Scheme Procedure: <b>make-dh-parameters</b><var> bits<a name="index-
make_002ddh_002dparameters-671"></a></var><br>
<blockquote><p>Return new Diffie-Hellman parameters.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:996 -->
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>set-session-transport-port!</b><var> session port<a name="index-
set_002dsession_002dtransport_002dport_0021-672"></a></var><br>
<blockquote><p>Use <var>port</var> as the input/output port for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:946 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-session-transport-fd!</b><var> session fd<a name="index-
set_002dsession_002dtransport_002dfd_0021-673"></a></var><br>
<blockquote><p>Use file descriptor <var>fd</var> as the underlying transport for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:901 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-record-port</b><var> session<a name="index-
session_002drecord_002dport-674"></a></var><br>
<blockquote><p>Return a read-write port that may be used to communicate over <var>session</var>. All
invocations of <code>session-port</code> on a given session return the same object (in the sense of
<code>eq?</code>).
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:674 -->
<div class="defun">
&mdash; Scheme Procedure: <b>record-receive!</b><var> session array<a name="index-
record_002dreceive_0021-675"></a></var><br>
<blockquote><p>Receive data from <var>session</var> into <var>array</var>, a uniform homogeneous array.
Return the number of bytes actually received.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:641 -->
<div class="defun">
&mdash; Scheme Procedure: <b>record-send</b><var> session array<a name="index-record_002dsend-
676"></a></var><br>
<blockquote><p>Send the record constituted by <var>array</var> through <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:559 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-session-credentials!</b><var> session cred<a name="index-
set_002dsession_002dcredentials_0021-677"></a></var><br>
<blockquote><p>Use <var>cred</var> as <var>session</var>'s credentials.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:537 -->
<div class="defun">
&mdash; Scheme Procedure: <b>cipher-suite-&gt;string</b><var> kx cipher mac<a name="index-
cipher_002dsuite_002d_003estring-678"></a></var><br>
<blockquote><p>Return the name of the given cipher suite.
</p></blockquote></div>
```

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:521 -->

<div class="defun">

— Scheme Procedure: set-session-default-export-priority!<var> session</var>

<blockquote><p>Have <var>session</var> use the default export priorities.

</p></blockquote></div>

<!-- snarfed from ../guile/src/core.c:505 -->

<div class="defun">

— Scheme Procedure: set-session-default-priority!<var> session</var>

<blockquote><p>Have <var>session</var> use the default priorities.

</p></blockquote></div>

<!-- snarfed from ../guile/src/priorities.i.c:105 -->

<div class="defun">

— Scheme Procedure: set-session-certificate-type-priority!<var> session items</var>

<blockquote><p>Use <var>items</var> (a list) as the list of preferred certificate-type for <var>session</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/priorities.i.c:85 -->

<div class="defun">

— Scheme Procedure: set-session-protocol-priority!<var> session items</var>

<blockquote><p>Use <var>items</var> (a list) as the list of preferred protocol for <var>session</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/priorities.i.c:65 -->

<div class="defun">

— Scheme Procedure: set-session-kx-priority!<var> session items</var>

<blockquote><p>Use <var>items</var> (a list) as the list of preferred kx for <var>session</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/priorities.i.c:45 -->

<div class="defun">

— Scheme Procedure: set-session-compression-method-priority!<var> session items</var>

<blockquote><p>Use <var>items</var> (a list) as the list of preferred compression-method for <var>session</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/priorities.i.c:25 -->

<div class="defun">

— Scheme Procedure: set-session-mac-priority!<var> session items<a name="index-

```
set_002dsession_002dmac_002dpriority_0021-685"></a></var><br>
<blockquote><p>Use <var>items</var> (a list) as the list of preferred mac for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/priorities.i.c:5 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-session-cipher-priority!</b><var> session items<a name="index-
set_002dsession_002dcipher_002dpriority_0021-686"></a></var><br>
<blockquote><p>Use <var>items</var> (a list) as the list of preferred cipher for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:482 -->
<div class="defun">
&mdash; Scheme Procedure: <b>set-server-session-certificate-request!</b><var> session request<a name="index-
set_002dserver_002dsession_002dcertificate_002drequest_0021-687"></a></var><br>
<blockquote><p>Tell how <var>session</var>, a server-side session, should deal with certificate requests.
<var>request</var> should be either <code>certificate-request/request</code> or <code>certificate-
request/require</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:442 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-our-certificate-chain</b><var> session<a name="index-
session_002dour_002dcertificate_002dchain-688"></a></var><br>
<blockquote><p>Return our certificate chain for <var>session</var> (as sent to the peer) in raw format (a
u8vector). In the case of OpenPGP there is exactly one certificate. Return the empty list if no certificate was used.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:395 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-peer-certificate-chain</b><var> session<a name="index-
session_002dpeer_002dcertificate_002dchain-689"></a></var><br>
<blockquote><p>Return the a list of certificates in raw format (u8vectors) where the first one is the peer's
certificate. In the case of OpenPGP, there is always exactly one certificate. In the case of X.509, subsequent
certificates indicate form a certificate chain. Return the empty list if no certificate was sent.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:371 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-client-authentication-type</b><var> session<a name="index-
session_002dclient_002dauthentication_002dtype-690"></a></var><br>
<blockquote><p>Return the client authentication type (a <code>credential-type</code> value) used in
<var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:351 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-server-authentication-type</b><var> session<a name="index-
```



```
session_002dserver_002dauthentication_002dtype-691"></a></var><br>
<blockquote><p>Return the server authentication type (a <code>credential-type</code> value) used in
<var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:331 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-authentication-type</b><var> session<a name="index-
session_002dauthentication_002dtype-692"></a></var><br>
<blockquote><p>Return the authentication type (a <code>credential-type</code> value) used by
<var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:311 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-protocol</b><var> session<a name="index-session_002dprotocol-
693"></a></var><br>
<blockquote><p>Return the protocol used by <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:295 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-certificate-type</b><var> session<a name="index-
session_002dcertificate_002dtype-694"></a></var><br>
<blockquote><p>Return <var>session</var>'s certificate type.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:278 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-compression-method</b><var> session<a name="index-
session_002dcompression_002dmethod-695"></a></var><br>
<blockquote><p>Return <var>session</var>'s compression method.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:261 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-mac</b><var> session<a name="index-session_002dmac-
696"></a></var><br>
<blockquote><p>Return <var>session</var>'s MAC.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:245 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session-kx</b><var> session<a name="index-session_002dkx-
697"></a></var><br>
<blockquote><p>Return <var>session</var>'s kx.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:229 -->
<div class="defun">
&mdash; Scheme Procedure: session-cipher<var> session<a name="index-session_002dcipher-698"></a></var><br>
<blockquote><p>Return <var>session</var>'s cipher.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:202 -->
<div class="defun">
&mdash; Scheme Procedure: alert-send<var> session level alert<a name="index-alert_002dsend-699"></a></var><br>
<blockquote><p>Send <var>alert</var> via <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:185 -->
<div class="defun">
&mdash; Scheme Procedure: alert-get<var> session<a name="index-alert_002dget-700"></a></var><br>
<blockquote><p>Get an aleter from <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:167 -->
<div class="defun">
&mdash; Scheme Procedure: rehandshake<var> session<a name="index-rehandshake-701"></a></var><br>
<blockquote><p>Perform a re-handshaking for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:149 -->
<div class="defun">
&mdash; Scheme Procedure: handshake<var> session<a name="index-handshake-702"></a></var><br>
<blockquote><p>Perform a handshake for <var>session</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:129 -->
<div class="defun">
&mdash; Scheme Procedure: bye<var> session how<a name="index-bye-703"></a></var><br>
<blockquote><p>Close <var>session</var> according to <var>how</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:104 -->
<div class="defun">
&mdash; Scheme Procedure: make-session<var> end<a name="index-make_002dsession-704"></a></var><br>
<blockquote><p>Return a new session for connection end <var>end</var>, either <code>connection-end/server</code> or <code>connection-end/client</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/core.c:93 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>gnutls-version</b><var><a name="index-gnutls_002dversion-705"></a></var><br>
<blockquote><p>Return a string denoting the version number of the underlying GnuTLS library, e.g.,
<code>"1.7.2"</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:187 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>x509-private-key?</b><var> obj<a name="index-x509_002dprivate_002dkey_003f-706"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>x509-private-key</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:171 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>x509-certificate?</b><var> obj<a name="index-x509_002dcertificate_003f-707"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>x509-certificate</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:155 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>psk-client-credentials?</b><var> obj<a name="index-psk_002dclient_002dcredentials_003f-708"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>psk-client-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:139 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>psk-server-credentials?</b><var> obj<a name="index-psk_002dserver_002dcredentials_003f-709"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>psk-server-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:123 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>srp-client-credentials?</b><var> obj<a name="index-srp_002dclient_002dcredentials_003f-710"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>srp-client-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:107 -->
```

```
<div class="defun">
&mdash; Scheme Procedure: <b>srp-server-credentials?</b><var> obj<a name="index-srp_002dserver_002dcredentials_003f-711"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>srp-server-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:91 -->
<div class="defun">
&mdash; Scheme Procedure: <b>certificate-credentials?</b><var> obj<a name="index-
certificate_002dcredentials_003f-712"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>certificate-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:75 -->
<div class="defun">
&mdash; Scheme Procedure: <b>rsa-parameters?</b><var> obj<a name="index-rsa_002dparameters_003f-
713"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>rsa-parameters</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:59 -->
<div class="defun">
&mdash; Scheme Procedure: <b>dh-parameters?</b><var> obj<a name="index-dh_002dparameters_003f-
714"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>dh-parameters</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:43 -->
<div class="defun">
&mdash; Scheme Procedure: <b>anonymous-server-credentials?</b><var> obj<a name="index-
anonymous_002dserver_002dcredentials_003f-715"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>anonymous-server-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:27 -->
<div class="defun">
&mdash; Scheme Procedure: <b>anonymous-client-credentials?</b><var> obj<a name="index-
anonymous_002dclient_002dcredentials_003f-716"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>anonymous-client-credentials</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/smob-types.i.c:11 -->
<div class="defun">
&mdash; Scheme Procedure: <b>session?</b><var> obj<a name="index-session_003f-717"></a></var><br>
<blockquote><p>Return true if <var>obj</var> is of type <code>session</code>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:876 -->
<div class="defun">
&mdash; Scheme Procedure: <b>error-&gt;string</b><var> enumval<a name="index-error_002d_003estring-
718"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>error</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:855 -->
<div class="defun">
&mdash; Scheme Procedure: <b>certificate-verify</b><string</b><var> enumval<a name="index-
certificate_002dverify_002d_003estring-719"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>certificate-verify</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:810 -->
<div class="defun">
&mdash; Scheme Procedure: <b>key-usage</b><string</b><var> enumval<a name="index-
key_002dusage_002d_003estring-720"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>key-usage</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:762 -->
<div class="defun">
&mdash; Scheme Procedure: <b>psk-key-format</b><string</b><var> enumval<a name="index-
psk_002dkey_002dformat_002d_003estring-721"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>psk-key-format</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:721 -->
<div class="defun">
&mdash; Scheme Procedure: <b>sign-algorithm</b><string</b><var> enumval<a name="index-
sign_002dalgorithm_002d_003estring-722"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>sign-algorithm</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:700 -->
<div class="defun">
&mdash; Scheme Procedure: <b>pk-algorithm</b><string</b><var> enumval<a name="index-
pk_002dalgorithm_002d_003estring-723"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>pk-algorithm</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:679 -->
<div class="defun">
&mdash; Scheme Procedure: <b>x509-subject-alternative-name</b><string</b><var> enumval<a name="index-
x509_002dsubject_002dalternative_002dname_002d_003estring-724"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>x509-subject-alternative-name</code>
value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:636 -->
<div class="defun">
&mdash; Scheme Procedure: <b>x509-certificate-format</b><string</b><var> enumval<a name="index-
x509_002dcertificate_002dformat_002d_003estring-725"></a></var><br>
```

```
<blockquote><p>Return a string describing <var>enumval</var>, a <code>x509-certificate-format</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:595 -->
<div class="defun">
&mdash; Scheme Procedure: <b>certificate-type-&gt;string</b><var> enumval<a name="index-
certificate_002dtype_002d_003estring-726"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>certificate-type</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:574 -->
<div class="defun">
&mdash; Scheme Procedure: <b>protocol-&gt;string</b><var> enumval<a name="index-
protocol_002d_003estring-727"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>protocol</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:531 -->
<div class="defun">
&mdash; Scheme Procedure: <b>close-request-&gt;string</b><var> enumval<a name="index-
close_002drequest_002d_003estring-728"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>close-request</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:490 -->
<div class="defun">
&mdash; Scheme Procedure: <b>certificate-request-&gt;string</b><var> enumval<a name="index-
certificate_002drequest_002d_003estring-729"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>certificate-request</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:448 -->
<div class="defun">
&mdash; Scheme Procedure: <b>certificate-status-&gt;string</b><var> enumval<a name="index-
certificate_002dstatus_002d_003estring-730"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>certificate-status</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:404 -->
<div class="defun">
&mdash; Scheme Procedure: <b>handshake-description-&gt;string</b><var> enumval<a name="index-
handshake_002ddescription_002d_003estring-731"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>handshake-description</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:355 -->
<div class="defun">
&mdash; Scheme Procedure: <b>alert-description-&gt;string</b><var> enumval<a name="index-
```

```
alert_002ddescription_002d_003estring-732"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>alert-description</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:286 -->
<div class="defun">
&mdash; Scheme Procedure: <b>alert-level-&gt;string</b><var> enumval<a name="index-
alert_002dlevel_002d_003estring-733"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>alert-level</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:245 -->
<div class="defun">
&mdash; Scheme Procedure: <b>connection-end-&gt;string</b><var> enumval<a name="index-
connection_002dend_002d_003estring-734"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>connection-end</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:204 -->
<div class="defun">
&mdash; Scheme Procedure: <b>compression-method-&gt;string</b><var> enumval<a name="index-
compression_002dmethod_002d_003estring-735"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>compression-method</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:183 -->
<div class="defun">
&mdash; Scheme Procedure: <b>digest-&gt;string</b><var> enumval<a name="index-digest_002d_003estring-
736"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>digest</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:139 -->
<div class="defun">
&mdash; Scheme Procedure: <b>mac-&gt;string</b><var> enumval<a name="index-mac_002d_003estring-
737"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>mac</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:118 -->
<div class="defun">
&mdash; Scheme Procedure: <b>credentials-&gt;string</b><var> enumval<a name="index-
credentials_002d_003estring-738"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>credentials</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:74 -->
<div class="defun">
```

```
&mdash; Scheme Procedure: params-&string</b><var> enumval<a name="index-params_002d_003estring-739"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>params</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:33 -->
<div class="defun">
&mdash; Scheme Procedure: kx-&string</b><var> enumval<a name="index-kx_002d_003estring-740"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>kx</code> value.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/enum-map.i.c:12 -->
<div class="defun">
&mdash; Scheme Procedure: cipher-&string</b><var> enumval<a name="index-cipher_002d_003estring-741"></a></var><br>
<blockquote><p>Return a string describing <var>enumval</var>, a <code>cipher</code> value.
</p></blockquote></div>
```

```
<div class="node">
<a name="Extra-Interface"></a>
<p><hr>
Previous:&nbsp;<a rel="previous" accesskey="p" href="#Core-Interface">Core Interface</a>,
Up:&nbsp;<a rel="up" accesskey="u" href="#Guile-Reference">Guile Reference</a>
```

```
</div>
```

11.4.2 Extra Interface

This section lists the Scheme procedures exported by the `(gnutls extra)` module. This module is licenced under the GNU General Public Licence, version 3 or later.

```
<!-- Automatically generated, do not edit. -->
<!-- snarfed from ../guile/src/extra.c:513 -->
<div class="defun">
&mdash; Scheme Procedure: set-certificate-credentials-openpgp-keys!</b><var> cred pub sec<a name="index-set_002dcertificate_002dcredentials_002dopenpgp_002dkeys_0021-742"></a></var><br>
<blockquote><p>Use certificate <var>pub</var> and secret key <var>sec</var> in certificate credentials <var>cred</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra.c:475 -->
<div class="defun">
&mdash; Scheme Procedure: openpgp-keyring-contains-key-id?</b><var> keyring id<a name="index-openpgp_002dkeyring_002dcontains_002dkey_002did_003f-743"></a></var><br>
<blockquote><p>Return <code>#f</code> if key ID <var>id</var> is in <var>keyring</var>, <code>#f</code> otherwise.
```


</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:429 -->

<div class="defun">

— Scheme Procedure: import-openpgp-keyring<var> data format</var>

<blockquote><p>Import <var>data</var> (a u8vector) according to <var>format</var> and return the imported keyring.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:403 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate-usage<var> key</var>

<blockquote><p>Return a list of values denoting the key usage of <var>key</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:386 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate-version<var> key</var>

<blockquote><p>Return the version of the OpenPGP message format (RFC2440) honored by <var>key</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:365 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate-algorithm<var> key</var>

<blockquote><p>Return two values: the certificate algorithm used by <var>key</var> and the number of bits used.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:329 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate-names<var> key</var>

<blockquote><p>Return the list of names for <var>key</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:306 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate-name<var> key index</var>

<blockquote><p>Return the <var>index</var>th name of <var>key</var>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra.c:248 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate-fingerprint<var> key<a name="index-

```
openpgp_002dcertificate_002dfingerprint-750"></a></var><br>
<blockquote><p>Return a new u8vector denoting the fingerprint of <var>key</var>.
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra.c:218 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>openpgp-certificate-fingerprint!</b><var> key fpr<a name="index-
openpgp_002dcertificate_002dfingerprint_0021-751"></a></var><br>
```

```
<blockquote><p>Store in <var>fpr</var> (a u8vector) the fingerprint of <var>key</var>. Return the number of
bytes stored in <var>fpr</var>.
```

```
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra.c:183 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>openpgp-certificate-id!</b><var> key id<a name="index-
openpgp_002dcertificate_002did_0021-752"></a></var><br>
```

```
<blockquote><p>Store the ID (an 8 byte sequence) of certificate <var>key</var> in <var>id</var> (a u8vector).
```

```
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra.c:157 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>openpgp-certificate-id</b><var> key<a name="index-
openpgp_002dcertificate_002did-753"></a></var><br>
```

```
<blockquote><p>Return the ID (an 8-element u8vector) of certificate <var>key</var>.
```

```
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra.c:102 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>import-openpgp-private-key</b><var> data format
```

```
</var>[<var>pass</var>]<var><a name="index-import_002dopenpgp_002dprivate_002dkey-754"></a></var><br>
```

```
<blockquote><p>Return a new OpenPGP private key object resulting from the import of <var>data</var> (a
uniform array) according to <var>format</var>. Optionally, a passphrase may be provided.
```

```
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra.c:57 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>import-openpgp-certificate</b><var> data format<a name="index-
import_002dopenpgp_002dcertificate-755"></a></var><br>
```

```
<blockquote><p>Return a new OpenPGP certificate object resulting from the import of <var>data</var> (a uniform
array) according to <var>format</var>.
```

```
</p></blockquote></div>
```

```
<!-- snarfed from ../guile/src/extra-enum-map.i.c:32 -->
```

```
<div class="defun">
```

```
&mdash; Scheme Procedure: <b>openpgp-certificate-format-&gt;string</b><var> enumval<a name="index-
openpgp_002dcertificate_002dformat_002d_003estring-756"></a></var><br>
```

```
<blockquote><p>Return a string describing <var>enumval</var>, a <code>openpgp-certificate-format</code>
value.
```

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra-smob-types.i.c:43 -->

<div class="defun">

— Scheme Procedure: openpgp-keyring?<var> obj</var>

<blockquote><p>Return true if <var>obj</var> is of type <code>openpgp-keyring</code>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra-smob-types.i.c:27 -->

<div class="defun">

— Scheme Procedure: openpgp-private-key?<var> obj</var>

<blockquote><p>Return true if <var>obj</var> is of type <code>openpgp-private-key</code>.

</p></blockquote></div>

<!-- snarfed from ../guile/src/extra-smob-types.i.c:11 -->

<div class="defun">

— Scheme Procedure: openpgp-certificate?<var> obj</var>

<blockquote><p>Return true if <var>obj</var> is of type <code>openpgp-certificate</code>.

</p></blockquote></div>

<!-- Local Variables: -->

<!-- ispell-local-dictionary: "american" -->

<!-- End: -->

<div class="node">

<p><hr>

Next: Copying Information,&br/>Previous: Guile Bindings,&br/>Up: Top

</div>

<h2 class="chapter">12 Internal Architecture of GnuTLS</h2>

<p>

This chapter is to give a brief description of the way <acronym>GnuTLS</acronym> works. The focus is to give an idea to potential developers and those who want to know what happens inside the black box.

<ul class="menu">

The TLS Protocol

TLS Handshake Protocol

TLS Authentication Methods

TLS Extension Handling

Cryptographic Backend

<div class="node">

<p><hr>

Next: TLS Handshake Protocol,&br/>Up: Internal architecture of
GnuTLS

</div>

12.1 The TLS Protocol</h3>

<p>The main needs for the TLS protocol to be used are shown in the image below.

<div class="block-image"></div>

<p>This is being accomplished by the following object diagram.

Note that since <acronym>GnuTLS</acronym> is being developed in C object are just structures with attributes. The operations listed are functions that require the first parameter to be that object.

<div class="node">

<p><hr>

Next: TLS Authentication Methods,&br/>Previous: The TLS Protocol,&br/>Up: Internal architecture of
GnuTLS

</div>

12.2 TLS Handshake Protocol</h3>

<p>The <acronym>GnuTLS</acronym> handshake protocol is implemented as a state machine that waits for input or returns immediately when the non-blocking transport layer functions are used. The main idea is shown in the following figure.

<div class="block-image"></div>

<p>Also the way the input is processed varies per ciphersuite. Several implementations of the internal handlers are available and

gnutls_handshake only multiplexes the input to the appropriate

handler. For example a `PSK` ciphersuite has a different implementation of the `process_client_key_exchange` than a certificate ciphersuite.

```
<div class="block-image"></div>
```

```
<div class="node">
```

```
<a name="TLS-Authentication-Methods"></a>
```

```
<p><hr>
```

```
Next:&nbsp;<a rel="next" accesskey="n" href="#TLS-Extension-Handling">TLS Extension Handling</a>,</pre>
```

```
Previous:&nbsp;<a rel="previous" accesskey="p" href="#TLS-Handshake-Protocol">TLS Handshake Protocol</a>,</pre>
```

```
Up:&nbsp;<a rel="up" accesskey="u" href="#Internal-architecture-of-GnuTLS">Internal architecture of GnuTLS</a>
```

```
</div>
```

12.3 TLS Authentication Methods

In `GnuTLS` authentication methods can be implemented quite easily. Since the required changes to add a new authentication method affect only the handshake protocol, a simple interface is used. An authentication method needs only to implement the functions as seen in the figure below.

```
<div class="block-image"></div>
```

The functions that need to be implemented are the ones responsible for interpreting the handshake protocol messages. It is common for such functions to read data from one or more `credentials_t` structures [¹⁷](#fn-17) and write data, such as certificates, usernames etc. to `auth_info_t` structures.

Simple examples of existing authentication methods can be seen in `auth_psk.c` for PSK ciphersuites and `auth_srp.c` for SRP ciphersuites. After implementing these functions the structure holding its pointers has to be registered in `gnutls_algorithms.c` in the `_gnutls_kx_algorithms` structure.

```
<div class="node">
```

```
<a name="TLS-Extension-Handling"></a>
```

```
<p><hr>
```

```
Next:&nbsp;<a rel="next" accesskey="n" href="#Cryptographic-Backend">Cryptographic Backend</a>,</pre>
```

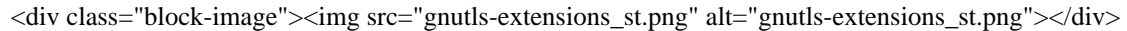
```
Previous:&nbsp;<a rel="previous" accesskey="p" href="#TLS-Authentication-Methods">TLS Authentication Methods</a>,</pre>
```

```
Up:&nbsp;<a rel="up" accesskey="u" href="#Internal-architecture-of-GnuTLS">Internal architecture of GnuTLS</a>
```

```
</div>
```

12.4 TLS Extension Handling

As with authentication methods, the TLS extensions handlers can be implemented using the following interface.



Here there are two functions, one for receiving the extension data and one for sending. These functions have to check internally whether they operate in client or server side.

A simple example of an extension handler can be seen in `ext_srp.c`. After implementing these functions, together with the extension number they handle, they have to be registered in `gnutls_extensions.c` in the `_gnutls_extensions` structure.

12.4.1 Adding a New TLS Extension

Adding support for a new TLS extension is done from time to time, and the process to do so is not difficult. Here are the steps you need to follow if you wish to do this yourself. For sake of discussion, let's consider adding support for the hypothetical TLS extension `foobar`.

-

- Modify `configure.in` to add `--enable-foobar` or `--disable-foobar`.

Which to chose depends on whether you intend to make the extension be enabled by default. Look at existing checks (i.e., SRP, authz) for how to model the code. For example:

```
AC_MSG_CHECKING([whether to disable foobar support])
AC_ARG_ENABLE(foobar,
  AS_HELP_STRING([--disable-foobar],
    [disable foobar support]),
  ac_enable_foobar=no)
if test x$ac_enable_foobar != xno; then
  AC_MSG_RESULT(no)
  AC_DEFINE(ENABLE_FOOBAR, 1, [enable foobar])
else
  ac_full=0
  AC_MSG_RESULT(yes)
fi
AM_CONDITIONAL(ENABLE_FOOBAR, test "$ac_enable_foobar" != "no")
```

- Add IANA extension value to `extensions_t` in `gnutls_int.h`.

<p>A good name for the value would be GNUTLS_EXTENSION_FOOBAR. Check with http://www.iana.org/assignments/tls-extensiontype-values

for allocated values. For experiments, you could pick a number but remember that some consider it a bad idea to deploy such modified version since it will lead to interoperability problems in the future when the IANA allocates that number to someone else, or when the foobar protocol is allocated another number.

Add an entry to <code>_gnutls_extensions</code> in <code>gnutls_extensions.c</code>.

<p>A typical entry would be:

```
<pre class="example">    #if ENABLE_FOOBAR
    GNUTLS_EXTENSION_ENTRY (GNUTLS_EXTENSION_FOOBAR,
        _gnutls_foobar_recv_params,
        _gnutls_foobar_send_params),
    #endif
</pre>
```

<p>The GNUTLS_EXTENSION_FOOBAR is the integer value you added to <code>gnutls_int.h</code> earlier. The two functions are new functions that you will need to implement, most likely you'll need to add an <code>#include "ext_foobar.h"</code> as well.

Add new files <code>ext_foobar.c</code> and <code>ext_foobar.h</code> that implements the extension.

<p>The functions you are responsible to add are those mentioned in the previous step. As a starter, you could add this:

```
<pre class="example">    int
    _gnutls_foobar_recv_params (gnutls_session_t session,
        const opaque * data,
        size_t data_size)
    {
        return 0;
    }

    int
    _gnutls_foobar_send_params (gnutls_session_t session,
        opaque * data,
        size_t _data_size)
    {
        return 0;
    }
</pre>
```

<p>The <code>_gnutls_foobar_recv_params</code> function is responsible for parsing incoming extension data (both in the client and server).

<p>The <code>_gnutls_foobar_send_params</code> function is responsible for sending extension data (both in the client and server).

<p>If you receive length fields that doesn't match, return <code>GNUTLS_E_UNEXPECTED_PACKET_LENGTH</code>. If you receive invalid data, return <code>GNUTLS_E_RECEIVED_ILLEGAL_PARAMETER</code>. You can use other error codes too. Return 0 on success.

<p>The function typically store some information in the <code>session</code> variable for later usage. If you need to add new fields there, check <code>tls_ext_st</code> in <code>gnutls_int.h</code> and compare with existing TLS extension specific variables.

<p>Recall that both the client and server both send and receives parameters, and your code most likely will need to do different things depending on which mode it is in. It may be useful to make this distinction explicit in the code. Thus, for example, a better template than above would be:

```
<pre class="example">    int
    _gnutls_foobar_rcv_params (gnutls_session_t session,
                              const opaque * data,
                              size_t data_size)
    {
        if (session-&gt;security_parameters.entity == GNUTLS_CLIENT)
            return foobar_rcv_client (session, data, data_size);
        else
            return foobar_rcv_server (session, data, data_size);
    }

    int
    _gnutls_foobar_send_params (gnutls_session_t session,
                               opaque * data,
                               size_t data_size)
    {
        if (session-&gt;security_parameters.entity == GNUTLS_CLIENT)
            return foobar_send_client (session, data, data_size);
        else
            return foobar_send_server (session, data, data_size);
    }
</pre>
```

<p>The functions used would be declared as <code>static</code> functions, of the appropriate prototype, in the same file.

<p>When adding the files, you'll need to add them to <code>Makefile.am</code> as well, for example:


```
<pre class="example">    if ENABLE_FOOBAR
    OBJECTS += ext_foobar.c
    HFILES += ext_foobar.h
    endif
</pre>
```

Add API functions to enable/disable the extension.

<p>Normally the client will have one API to request use of the extension, and setting some extension specific data. The server will have one API to let the library know that it is willing to accept the extension, often this is implemented through a callback but it doesn't have to.

<p>The APIs need to be added to <code>includes/gnutls/gnutls.h</code> or <code>includes/gnutls/extra.h</code> as appropriate. It is recommended that if you don't have a requirement to use the LGPLv2.1+ license for your extension, that you place your work under the GPLv3+ license and thus in the libgnutls-extra library.

<p>You can implement the API function in the <code>ext_foobar.c</code> file, or if that file ends up becoming rather larger, add a <code>gnutls_foobar.c</code> file.

<h3 class="section">12.5 Certificate Handling</h3>

<p>What is provided by the certificate handling functions is summarized in the following diagram.

<div class="block-image"></div>

<div class="node">

<p><hr>

Previous: TLS Extension Handling,&br/>Up: Internal architecture of
GnuTLS

</div>

</div>

<h3 class="section">12.6 Cryptographic Backend</h3>

<p>Several new systems provide hardware assisted cryptographic algorithm implementations that offer implementations some orders of magnitude faster than the software. For this reason in current releases of GnuTLS it is possible to override parts of the crypto backend or the whole. It is possible to override them both at runtime and compile time, however

here we will discuss the runtime possibility. The API available for this functionality is in `gnutls/crypto.h` header file.

12.6.1 Override specific algorithms

When an optimized implementation of a single algorithm is available, say a hardware assisted version of `AES-CBC` then the following functions can be used to register those algorithms.

-

- [gnutls_crypto_single_cipher_register2](#)

To register a cipher algorithm.

- [gnutls_crypto_single_mac_register2](#)

To register a MAC algorithm.

-

- [gnutls_crypto_single_digest_register2](#)

To register a digest (hash) algorithm.

Those registration functions will only replace the specified algorithm and leave the rest of subsystem intact.

12.6.2 Override parts of the backend

In some systems, such as embedded ones, it might be desirable to override big parts of the cryptographic backend, or even all of them. For this reason the following functions are provided.

-

- [gnutls_crypto_cipher_register2](#)

To override the cryptographic algorithms backend.

- [gnutls_crypto_mac_register2](#)

To override the MAC algorithms backend.

- [gnutls_crypto_digest_register2](#)

To override the digest algorithms backend.

- [gnutls_crypto_rnd_register2](#)

To override the random number generator backend.

- [gnutls_crypto_bigint_register2](#)

To override the big number number operations backend.

[gnutls_crypto_pk_register2](#)
To override the public key encryption backend. This is tight to the big number operations so either both of them should be updated or care must be taken to use the same format.

If all of them are used then GnuTLS will no longer use libgcrypt.

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Next: [Concept Index](#),

Previous: [Internal architecture of GnuTLS](#),

Up: [Top](#)

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```
</pre>
```

```
<p>Also add information on how to contact you by electronic and paper mail.
```

```
<p>You should also get your employer (if you work as a programmer) or your school, if any, to sign a &ldquo;copyright disclaimer&rdquo; for the library, if necessary. Here is a sample; alter the names:
```

```
<pre class="smallexample">  Yoyodyne, Inc., hereby disclaims all copyright interest in the library
  `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
  <var>signature of Ty Coon</var>, 1 April 1990
```

```
  Ty Coon, President of Vice
```

```
</pre>
```

```
<p>That's all there is to it!
```

```
<div class="node">
```

```
<a name="GNU-GPL"></a>
```

```
<p><hr>
```

```
Previous:&nbsp;<a rel="previous" accesskey="p" href="#GNU-LGPL">GNU LGPL</a>,&
```

```
Up:&nbsp;<a rel="up" accesskey="u" href="#Copying-Information">Copying Information</a>
```

```
</div>
```

```
<h3 class="appendixsec">A.3 GNU General Public License</h3>
```

```
<p><a name="index-GPL_002c-GNU-General-Public-License-764"></a><a name="index-License_002c-GNU-GPL-765"></a>
```

```
<!-- The GNU General Public License. -->
```

```
<div align="center">Version 3, 29 June 2007</div>
```

```
<!-- This file is intended to be included within another document, -->
```

```
<!-- hence no sectioning command or @node. -->
```

```
<pre class="display">  Copyright &copy; 2007 Free Software Foundation, Inc. <a
href="http://fsf.org/">http://fsf.org/</a>
```


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</pre>
<p>Also add information on how to contact you by electronic and paper mail.

<p>If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<pre class="smallexample">  <var>program</var> Copyright (C) <var>year</var> <var>name of author</var>
  This program comes with ABSOLUTELY NO WARRANTY; for details type &lsquo;<samp><span
class="samp">show w</span></samp>&rsquo;.
```

This is free software, and you are welcome to redistribute it under certain conditions; type ‘<samp>show c</samp>’ for details.

```
</pre>
<p>The hypothetical commands show w and show c should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an about box.
```

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<div class="node">
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<a name="Bibliography"></a>
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<p><hr>
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<div class="footnote">

<h4>Footnotes</h4><p class="footnote"><small>[1]</small> http://www.openssl.org/</p>

<p class="footnote"><small>[2]</small> ftp://ftp.gnupg.org/gcrypt/alpha/gnutls/libtasn1/</p>

<p class="footnote"><small>[3]</small> ftp://ftp.gnupg.org/gcrypt/alpha/gnutls/openssl/</p>

<p class="footnote"><small>[4]</small> ftp://ftp.gnupg.org/gcrypt/alpha/libgcrypt/</p>

<p class="footnote"><small>[5]</small> On current versions of GnuTLS it is possible to override the default crypto backend. Check see Cryptographic Backend for details</p>

<p class="footnote"><small>[6]</small> The first message in a <acronym>TLS</acronym> handshake</p>

<p class="footnote"><small>[7]</small> IETF, or Internet Engineering Task Force, is a large open international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the smooth operation of the Internet. It is open to any interested individual.</p>

<p class="footnote"><small>[8]</small> AES, or Advanced Encryption Standard, is actually the RIJNDAEL algorithm. This is the algorithm that replaced DES.</p>

<p class="footnote"><small>[9]</small> <code>ARCFOUR_128</code> is a compatible algorithm with RSA's RC4 algorithm, which is considered to be a trade secret.</p>

<p class="footnote"><small>[10]</small> You should use gnutls_handshake_set_private_extensions

to enable private extensions.</p>

<p class="footnote"><small>11</small> MAC stands for Message Authentication Code. It can be described as a keyed hash algorithm. See RFC2104.</p>

<p class="footnote"><small>12</small> It really depends on the group used. Primes with lesser bits are always faster, but also easier to break. Values less than 768 should not be used today</p>

<p class="footnote"><small>13</small> <acronym>SRP</acronym> is described in [RFC2945] (see Bibliography</p>

<p class="footnote"><small>14</small> See also the Server Name Indication extension on serverind.</p>

<p class="footnote"><small>15</small> See LDAP, IMAP etc.</p>

<p class="footnote"><small>16</small> in <acronym>SRP</acronym> authentication</p>

<p class="footnote"><small>17</small> such as the <code>gnutls_certificate_credentials_t</code> structures</p>

<hr></div>

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%%Title: gnutls.dvi

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%%Pages: 347

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/BitMaps X/BuildChar{CharBuilder}N/Encoding IEn N end A{/foo setfont}2
array copy cvx N load 0 nn put/ctr 0 N[}B/sf 0 N/df{/sf 1 N/fntrx FMat N
df-tail}B/dfs{div/sf X/fntrx[sf 0 0 sf neg 0 0]N df-tail}B/E{pop nn A
definefont setfont}B/Cw{Cd A length 5 sub get}B/Ch{Cd A length 4 sub get
}B/Cx{128 Cd A length 3 sub get sub}B/Cy{Cd A length 2 sub get 127 sub}
B/Cdx{Cd A length 1 sub get}B/Ci{Cd A type/stringtype ne{ctr get/ctr ctr
1 add N}if}B/CharBuilder{save 3 1 roll S A/base get 2 index get S
/BitMaps get S get/Cd X pop/ctr 0 N Cdx 0 Cx Cy Ch sub Cx Cw add Cy
setcachedevice Cw Ch true[1 0 0 -1 -.1 Cx sub Cy .1 sub]{Ci}imagemask
restore}B/D{/cc X A type/stringtype ne{}}if nn/base get cc ctr put nn
/BitMaps get S ctr S sf 1 ne{A A length 1 sub A 2 index S get sf div put
}if put/ctr ctr 1 add N}B/I{cc 1 add D}B/bop{userdict/bop-hook known{
bop-hook}if/SI save N @rigin 0 0 moveto/V matrix currentmatrix A 1 get A
mul exch 0 get A mul add .99 lt{/QV}{/RV}ifelse load def pop pop}N/eop{
SI restore userdict/eop-hook known{eop-hook}if showpage}N/@start{
userdict/start-hook known{start-hook}if pop/VResolution X/Resolution X
1000 div/DVImag X/IEn 256 array N 2 string 0 1 255{IEn S A 360 add 36 4
index cvrs cvn put}for pop 65781.76 div/vsize X 65781.76 div/hsize X}N
/p{show}N/RMat[1 0 0 -1 0 0]N/BDot 260 string N/Rx 0 N/Ry 0 N/V{ }B/RV/v{
/Ry X/Rx X V}B/statusdict begin/product where{pop false[(Display)(NeXT)
(LaserWriter 16/600)]{A length product length le{A length product exch 0
exch getinterval eq{pop true exit}if}{pop}ifelse}forall}{false}ifelse
end{{gsave TR -.1 .1 TR 1 1 scale Rx Ry false RMat{BDot}imagemask
grestore}}{gsave TR -.1 .1 TR Rx Ry scale 1 1 false RMat{BDot}
imagemask grestore}}ifelse B/QV{gsave newpath transform round exch round
exch itransform moveto Rx 0 rlineto 0 Ry neg rlineto Rx neg 0 rlineto
fill grestore}B/a{moveto}B/delta 0 N/tail{A/delta X 0 rmoveto}B/M{S p
delta add tail}B/b{S p tail}B/c{-4 M}B/d{-3 M}B/e{-2 M}B/f{-1 M}B/g{0 M}
B/h{1 M}B/i{2 M}B/j{3 M}B/k{4 M}B/w{0 rmoveto}B/l{p -4 w}B/m{p -3 w}B/n{
p -2 w}B/o{p -1 w}B/q{p 1 w}B/r{p 2 w}B/s{p 3 w}B/t{p 4 w}B/x{0 S
rmoveto}B/y{3 2 roll p a}B/bos{/SS save N}B/eos{SS restore}B end

```

```
%%EndProcSet
```

```
%%BeginProcSet: texps.pro 0 0
```

```
%!

```

```

TeXDict begin/rf{findfont dup length 1 add dict begin{1 index/FID ne 2
index/UniqueID ne and{def}{pop pop}ifelse}forall[1 index 0 6 -1 roll
exec 0 exch 5 -1 roll VResolution Resolution div mul neg 0 0]FontType 0

```

```

ne{/Metrics exch def dict begin Encoding{exch dup type/integertype ne{
pop pop 1 sub dup 0 le{pop}{[]}ifelse}{FontMatrix 0 get div Metrics 0 get
div def}ifelse}forall Metrics/Metrics currentdict end def}{{ 1 index type
/nametype eq{exit}if exch pop}loop}ifelse[2 index currentdict end
definefont 3 -1 roll makefont/setfont cvx]cvx def}def/ObliqueSlant{dup
sin S cos div neg}B/SlantFont{4 index mul add}def/ExtendFont{3 -1 roll
mul exch}def/ReEncodeFont{CharStrings rcheck{/Encoding false def dup[
exch{dup CharStrings exch known not{pop/.notdef/Encoding true def}if}
forall Encoding{[exch pop]}{cleartomark}ifelse}if/Encoding exch def}def
end

```

```
%%EndProcSet
```

```
%%BeginProcSet: special.pro 0 0
```

```
%!
```

```

TeXDict begin/SDict 200 dict N SDict begin/@SpecialDefaults{/hs 612 N
/vs 792 N/ho 0 N/vo 0 N/hsc 1 N/vsc 1 N/ang 0 N/CLIP 0 N/rwiSeen false N
/rhiSeen false N/letter{}N/note{}N/a4{}N/legal{}N}B/@scaleunit 100 N
/@hscale{@scaleunit div/hsc X}B/@vscale{@scaleunit div/vsc X}B/@hsize{
/hs X/CLIP 1 N}B/@vsize{/vs X/CLIP 1 N}B/@clip{/CLIP 2 N}B/@hoffset{/ho
X}B/@voffset{/vo X}B/@angle{/ang X}B/@rwi{10 div/rwi X/rwiSeen true N}B
/@rhi{10 div/rhi X/rhiSeen true N}B/@llx{/llx X}B/@lly{/lly X}B/@urx{
/urx X}B/@ury{/ury X}B/magscale true def end/@MacSetUp{userdict/md known
{userdict/md get type/dicttype eq{userdict begin md length 10 add md
maxlength ge{/md md dup length 20 add dict copy def}if end md begin
/letter{}N/note{}N/legal{}N/od{txpose 1 0 mtx defaultmatrix dtransform S
atan/pa X newpath clippath mark{transform{itransform moveto}}{transform{
itransform lineto}}{6 -2 roll transform 6 -2 roll transform 6 -2 roll
transform{itransform 6 2 roll itransform 6 2 roll itransform 6 2 roll
curveto}}{closepath}}pathforall newpath counttomark array astore/gc xdf
pop ct 39 0 put 10 fz 0 fs 2 F/|____Courier fnt invertflag{PaintBlack}
if}N/txpose{pxs pys scale ppr aload pop por{noflips{pop S neg S TR pop 1
-1 scale}if xflip yflip and{pop S neg S TR 180 rotate 1 -1 scale ppr 3
get ppr 1 get neg sub neg ppr 2 get ppr 0 get neg sub neg TR}if xflip
yflip not and{pop S neg S TR pop 180 rotate ppr 3 get ppr 1 get neg sub
neg 0 TR}if yflip xflip not and{ppr 1 get neg ppr 0 get neg TR}if}{
noflips{TR pop pop 270 rotate 1 -1 scale}if xflip yflip and{TR pop pop
90 rotate 1 -1 scale ppr 3 get ppr 1 get neg sub neg ppr 2 get ppr 0 get
neg sub neg TR}if xflip yflip not and{TR pop pop 90 rotate ppr 3 get ppr
1 get neg sub neg 0 TR}if yflip xflip not and{TR pop pop 270 rotate ppr
2 get ppr 0 get neg sub neg 0 S TR}if}ifelse scaleby96{ppr aload pop 4
-1 roll add 2 div 3 1 roll add 2 div 2 copy TR .96 dup scale neg S neg S
TR}if}N/cp{pop pop showpage pm restore}N end}if}if}N/normalscale{
Resolution 72 div VResolution 72 div neg scale magscale{DVImag dup scale
}if 0 setgray}N/psfts{S 65781.76 div N}N/startTexFig{/psf$SavedState
save N userdict maxlength dict begin/magscale true def normalscale
currentpoint TR/psf$ury psfts/psf$urx psfts/psf$lly psfts/psf$llx psfts
/psf$y psfts/psf$x psfts currentpoint/psf$cy X/psf$cx X/psf$sx psf$y
psf$urx psf$llx sub div N/psf$sy psf$y psf$ury psf$lly sub div N psf$y

```

```

psf$sy scale psf$cx psf$sx div psf$llx sub psf$scy psf$sy div psf$ury sub
TR/showpage{ }N/erasepage{ }N/setpagedevice{pop}N/copypage{ }N/p 3 def
@MacSetUp}N/doclip{psf$llx psf$lly psf$urx psf$ury currentpoint 6 2 roll
newpath 4 copy 4 2 roll moveto 6 -1 roll S lineto S lineto S lineto
closepath clip newpath moveto}N/endTexFig{end psf$SavedState restore}N
/@beginspecial{SDict begin/SpecialSave save N gsave normalscale
currentpoint TR @SpecialDefaults count/ocount X/dcount countdictstack N}
N/@setspecial{CLIP 1 eq{newpath 0 0 moveto hs 0 rlineto 0 vs rlineto hs
neg 0 rlineto closepath clip}if ho vo TR hsc vsc scale ang rotate
rwiSeen{rwi urx llx sub div rhiSeen{rhi ury lly sub div}{dup}ifelse
scale llx neg lly neg TR}{rhiSeen{rhi ury lly sub div dup scale llx neg
lly neg TR}if}ifelse CLIP 2 eq{newpath llx lly moveto urx lly lineto urx
ury lineto llx ury lineto closepath clip}if/showpage{ }N/erasepage{ }N
/setpagedevice{pop}N/copypage{ }N newpath}N/@endspecial{count ocount sub{
pop}repeat countdictstack dcount sub{end}repeat grestore SpecialSave
restore end}N/@defspecial{SDict begin}N/@fedspecial{end}B/li{lineto}B
/rl{rlineto}B/rc{rcurveto}B/np{/SaveX currentpoint/SaveY X N 1
setlinecap newpath}N/st{stroke SaveX SaveY moveto}N/fil{fill SaveX SaveY
moveto}N/ellipse{/endangle X/startangle X/yrad X/xrad X/savematrix
matrix currentmatrix N TR xrad yrad scale 0 0 1 startangle endangle arc
savematrix setmatrix}N end

%%EndProcSet
%%BeginFont: CMMI9
%!PS-AdobeFont-1.1: CMMI9 1.100
%%CreationDate: 1996 Jul 23 07:53:55
% Copyright (C) 1997 American Mathematical Society. All Rights Reserved.
11 dict begin
/FontInfo 7 dict dup begin
/version (1.100) readonly def
/Notice (Copyright (C) 1997 American Mathematical Society. All Rights Reserved) readonly def
/FullName (CMMI9) readonly def
/FamilyName (Computer Modern) readonly def
/Weight (Medium) readonly def
/ItalicAngle -14.04 def
/isFixedPitch false def
end readonly def
/FontName /CMMI9 def
/PaintType 0 def
/FontType 1 def
/FontMatrix [0.001 0 0 0.001 0 0] readonly def
/Encoding 256 array
0 1 255 {1 index exch /.notdef put} for
dup 58 /period put
readonly def
/FontBBox{-29 -250 1075 750}readonly def
currentdict end
currentfile eexec

```

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cleartomark

%%EndFont

%%BeginFont: CMSLTT10

%!PS-AdobeFont-1.1: CMSLTT10 1.0

%%CreationDate: 1991 Aug 20 16:41:43

% Copyright (C) 1997 American Mathematical Society. All Rights Reserved.

11 dict begin

/FontInfo 7 dict dup begin

/version (1.0) readonly def

```

/Notice (Copyright (C) 1997 American Mathematical Society. All Rights Reserved) readonly def
/FullName (CMSLTT10) readonly def
/FamilyName (Computer Modern) readonly def
/Weight (Medium) readonly def
/ItalicAngle -9.46 def
/isFixedPitch true def
end readonly def
/FontName /CMSLTT10 def
/PaintType 0 def
/FontType 1 def
/FontMatrix [0.001 0 0 0.001 0 0] readonly def
/Encoding 256 array
0 1 255 { 1 index exch /.notdef put } for
dup 39 /quoteright put
dup 46 /period put
dup 48 /zero put
dup 49 /one put
dup 50 /two put
dup 51 /three put
dup 52 /four put
dup 53 /five put
dup 54 /six put
dup 55 /seven put
dup 57 /nine put
dup 65 /A put
dup 67 /C put
dup 76 /L put
dup 82 /R put
dup 84 /T put
dup 95 /underscore put
dup 97 /a put
dup 98 /b put
dup 99 /c put
dup 100 /d put
dup 101 /e put
dup 102 /f put
dup 103 /g put
dup 104 /h put
dup 105 /i put
dup 107 /k put
dup 108 /l put
dup 109 /m put
dup 110 /n put
dup 111 /o put
dup 112 /p put
dup 113 /q put
dup 114 /r put
dup 115 /s put

```

```
dup 116 /t put
dup 117 /u put
dup 118 /v put
dup 119 /w put
dup 120 /x put
dup 121 /y put
dup 122 /z put
readonly def
/FontBBox{-20 -233 617 696}readonly def
currentdict end
currentfile eexec
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%%CreationDate: 1991 Aug 20 17:33:34

% Copyright (C) 1997 American Mathematical Society. All Rights Reserved.

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%%CreationDate: 1992 Apr 26 10:42:42

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dup 86 /V put
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5340 y(in)h(the)h(section)g(en)m(titled)h(\GNU)f(F)-8
b(ree)32 b(Do)s(cumen)m(tation)g(License".)p eop end
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b(able)53 b(of)h(Con)l(ten)l(ts)150 606 y FA(1)135 b(Preface)34
b Fw(:)20 b(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h
(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)78 b FA(1)275 743 y FB(1.1)92
b(Getting)32 b(Help)15 b Fv(:)g(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g
(:)h(:)f(:)h(:)f(:)45 b FB(1)275 852 y(1.2)92 b(Commercial)31
b(Supp)s(ort)23 b Fv(:)13 b(:)i(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)53
b FB(1)275 962 y(1.3)92 b(Do)m(wnloading)31 b(and)f(Installing)9
b Fv(:)16 b(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h
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h(:)f(:)h(:)39 b FB(2)275 1071 y(1.4)92 b(Bug)30 b(Rep)s(orts)22
b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)53
b FB(3)275 1181 y(1.5)92 b(Con)m(tributing)18 b Fv(:)c(:)i(:)f(:)h(:)f
(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)48 b FB(3)150
1408 y FA(2)135 b(The)44 b(Library)26 b Fw(:)20 b(:)f(:)h(:)f(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)71
b FA(5)275 1545 y FB(2.1)92 b(General)31 b(Idea)20 b
Fv(:)15 b(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g
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h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)50
b FB(6)275 1654 y(2.2)92 b(Error)29 b(Handling)12 b Fv(:)j(:)h(:)f(:)g
(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)
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(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)42 b FB(7)275
1764 y(2.3)92 b(Memory)30 b(Handling)15 b Fv(:)h(:)f(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
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h(:)f(:)g(:)h(:)45 b FB(7)275 1873 y(2.4)92 b(Callbac)m(k)31
b(F)-8 b(unctions)16 b Fv(:)g(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)
f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)46
b FB(7)150 2100 y FA(3)135 b(In)l(tro)t(duction)45 b(to)g
Fu(TLS)31 b Fw(:)19 b(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h
(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)75
b FA(8)275 2237 y FB(3.1)92 b(TLS)29 b(La)m(y)m(ers)c
Fv(:)15 b(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
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(:)54 b FB(8)275 2346 y(3.2)92 b(The)29 b(T)-8 b(ransp)s(ort)30
b(La)m(y)m(er)19 b Fv(:)d(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)49
b FB(9)275 2456 y(3.3)92 b(The)29 b(TLS)h(Record)g(Proto)s(col)18
b Fv(:)f(:)f(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)
h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:)f(:)g(:)h(:)48 b FB(9)399 2566 y(3.3.1)93 b(Encryption)30
b(Algorithms)h(Used)f(in)g(the)g(Record)h(La)m(y)m(er)19
b Fv(:)e(:)f(:)f(:)g(:)h(:)f(:)h(:)f(:)49 b FB(10)399
2675 y(3.3.2)93 b(Compression)29 b(Algorithms)i(Used)g(in)f(the)g
(Record)h(La)m(y)m(er)8 b Fv(:)17 b(:)e(:)h(:)f(:)g(:)h(:)f(:)38
b FB(10)399 2785 y(3.3.3)93 b(W)-8 b(eaknesses)32 b(and)e(Coun)m
(termeasures)25 b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)56 b FB(11)275
2894 y(3.4)92 b(The)29 b(TLS)h(Alert)h(Proto)s(col)12
b Fv(:)17 b(:)e(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
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g(:)h(:)f(:)h(:)f(:)42 b FB(11)275 3004 y(3.5)92 b(The)29
b(TLS)h(Handshak)m(e)g(Proto)s(col)20 b Fv(:)d(:)e(:)h(:)f(:)h(:)f(:)g
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h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)49 b FB(11)399 3113 y(3.5.1)93
b(TLS)29 b(Cipher)g(Suites)e Fv(:)15 b(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)
h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)56 b
FB(12)399 3223 y(3.5.2)93 b(Clien)m(t)31 b(Authen)m(tication)26
b Fv(:)15 b(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)53 b FB(12)399 3333 y(3.5.3)93 b(Resuming)30
b(Sessions)25 b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)55 b FB(13)399 3442
y(3.5.4)93 b(Resuming)30 b(In)m(ternals)11 b Fv(:)k(:)h(:)f(:)h(:)f(:)g
(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)41
b FB(13)275 3552 y(3.6)92 b(TLS)29 b(Extensions)16 b
Fv(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h

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f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)46 b
FB(13)399 3661 y(3.6.1)93 b(Maxim)m(um)31 b(F)-8 b(ragmen)m(t)32
b(Length)e(Negotiation)15 b Fv(:)j(:)e(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:f(:)h(:)f(:)h(:)f(:)g(:)h(:)44 b FB(13)399 3771 y(3.6.2)93
b(Serv)m(er)30 b(Name)h(Indication)d Fv(:)15 b(:)h(:)f(:)h(:)f(:)g(:)h
(:f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)57 b FB(14)275 3881
y(3.7)92 b(Selecting)31 b(Cryptographic)f(Key)h(Sizes)11
b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)41
b FB(14)275 3990 y(3.8)92 b(On)29 b(SSL)g(2)i(and)f(Older)g(Proto)s
(cols)d Fv(:)15 b(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g
(:h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
56 b FB(15)275 4100 y(3.9)92 b(On)29 b(Record)i(P)m(adding)19
b Fv(:)c(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g
(:h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)48 b FB(15)150 4326
y FA(4)135 b(Authen)l(tication)46 b(Metho)t(ds)22 b Fw(:)d(:)g(:)h(:)f
(:g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)
67 b FA(17)275 4463 y FB(4.1)92 b(Certi\014cate)31 b(Authen)m(tication)
14 b Fv(:)j(:)f(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)f(:)h(:)43 b FB(17)399 4573 y(4.1.1)93 b(Authen)m(tication)32
b(Using)f Ft(X.509)e FB(Certi\014cates)14 b Fv(:)j(:)e(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)44
b FB(17)399 4682 y(4.1.2)93 b(Authen)m(tication)32 b(Using)f
Ft(Op)r(enPGP)e FB(Keys)19 b Fv(:)d(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)49 b FB(17)399
4792 y(4.1.3)93 b(Using)30 b(Certi\014cate)i(Authen)m(tication)11
b Fv(:)17 b(:)e(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)40 b FB(17)275
4902 y(4.2)92 b(Anon)m(ymous)30 b(Authen)m(tication)f
Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)57 b FB(19)275 5011 y(4.3)92 b(Authen)m(tication)32
b(using)e Ft(SRP)20 b Fv(:)15 b(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)50 b FB(19)275 5121 y(4.4)92
b(Authen)m(tication)32 b(using)e Ft(PSK)18 b Fv(:)d(:)g(:)h(:)f(:)g(:)h
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f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)48
b FB(20)275 5230 y(4.5)92 b(Authen)m(tication)32 b(and)e(Creden)m
(tials)10 b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g
(:h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)
h(:)39 b FB(21)275 5340 y(4.6)92 b(P)m(arameters)31 b(Stored)f(in)g
(Creden)m(tials)15 b Fv(:)h(:)g(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h
(:f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)

44 b FB(21)p eop end

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b(More)45 b(on)f(Certi\014cate)j(Authen)l(tication)14

b Fw(:)21 b(:)e(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)59 b FA(23)275

220 y FB(5.1)92 b(The)29 b Ft(X.509)h FB(T)-8 b(rust)29

b(Mo)s(del)13 b Fv(:)k(:)e(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)

(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)

h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)43 b FB(23)399 330

y(5.1.1)93 b Ft(X.509)29 b FB(Certi\014cates)10 b Fv(:)17

b(:)f(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f

(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)

f(:)h(:)f(:)g(:)h(:)40 b FB(23)399 439 y(5.1.2)93 b(V)-8

b(erifying)31 b Ft(X.509)e FB(Certi\014cate)j(P)m(aths)8

b Fv(:)16 b(:)g(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f

(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)38 b FB(25)399

549 y(5.1.3)93 b Ft(PK)n(CS)29 b FB(#10)i(Certi\014cate)h(Requests)13

b Fv(:)j(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)

f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)43 b FB(26)399

658 y(5.1.4)93 b Ft(PK)n(CS)29 b FB(#12)i(Structures)25

b Fv(:)15 b(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f

(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)

g(:)h(:)55 b FB(26)275 768 y(5.2)92 b(The)29 b Ft(Op)r(enPGP)h

FB(T)-8 b(rust)30 b(Mo)s(del)12 b Fv(:)k(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)

h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h

(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)42 b FB(26)399

878 y(5.2.1)93 b Ft(Op)r(enPGP)29 b FB(Keys)16 b Fv(:)f(:)h(:)f(:)g(:)h

(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)

f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f

(:)g(:)h(:)45 b FB(27)399 987 y(5.2.2)93 b(V)-8 b(erifying)31

b(an)f Ft(Op)r(enPGP)g FB(Key)18 b Fv(:)d(:)h(:)f(:)h(:)f(:)g(:)h(:)f

(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)

h(:)f(:)g(:)h(:)f(:)48 b FB(27)275 1097 y(5.3)92 b(Digital)32

b(Signatures)14 b Fv(:)i(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)

h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h

(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)44

b FB(28)399 1206 y(5.3.1)93 b(T)-8 b(rading)30 b(Securit)m(y)h(for)f

(In)m(terop)s(erabilit)m(y)13 b Fv(:)j(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h

(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)43

b FB(29)150 1449 y FA(6)135 b(Ho)l(w)45 b(T)-11 b(o)45

b(Use)g Fu(TLS)h FA(in)e(Application)i(Proto)t(cols)28

b Fw(:)20 b(:)72 b FA(30)275 1586 y FB(6.1)92 b(Separate)31

b(P)m(orts)19 b Fv(:)d(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h

(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)

h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)49

b FB(30)275 1695 y(6.2)92 b(Up)m(w)m(ard)30 b(Negotiation)11

b Fv(:)19 b(:)c(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h

(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)

h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)41 b FB(30)150 1938
y FA(7)135 b(Ho)l(w)45 b(T)-11 b(o)45 b(Use)g Fu(Gn)m(uTLS)h
FA(in)f(Applications)29 b Fw(:)20 b(:)f(:)h(:)f(:)g(:)h(:)f(:)74
b FA(32)275 2075 y FB(7.1)92 b(Preparation)16 b Fv(:)f(:)g(:)h(:)f(:)h
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f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)45 b FB(32)399
2184 y(7.1.1)93 b(Headers)16 b Fv(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:)f(:)h(:)f(:)g(:)h(:)45 b FB(32)399 2294 y(7.1.2)93
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(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)51
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(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)41 b FB(32)399
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g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)53 b FB(32)399 2623 y(7.1.5)93 b(Building)30
b(the)h(Source)23 b Fv(:)15 b(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
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f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)52 b FB(32)275 2732
y(7.2)92 b(Multi-Threaded)30 b(Applications)16 b Fv(:)g(:)g(:)f(:)h(:)f
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f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)46 b FB(33)275
2842 y(7.3)92 b(Clien)m(t)31 b(Examples)26 b Fv(:)15
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f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)55 b FB(34)399
2951 y(7.3.1)93 b(Simple)30 b(Clien)m(t)h(Example)g(with)f(Anon)m
(ymous)g(Authen)m(tication)20 b Fv(:)d(:)50 b FB(34)399
3061 y(7.3.2)93 b(Simple)30 b(Clien)m(t)h(Example)g(with)f
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g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)51 b
FB(68)399 4157 y(7.4.1)93 b(Ec)m(ho)31 b(Serv)m(er)f(with)g
Ft(X.509)f FB(Authen)m(tication)g Fv(:)15 b(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)56 b FB(68)399
4266 y(7.4.2)93 b(Ec)m(ho)31 b(Serv)m(er)f(with)g Ft(X.509)f
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f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)47 b FB(72)399 4376 y(7.4.3)93
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h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)45 b FB(92)399 4814 y(7.5.1)93
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h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)54 b FB(92)399
4924 y(7.5.2)93 b Ft(X.509)29 b FB(Certi\014cate)j(P)m(arsing)e
(Example)19 b Fv(:)d(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)
h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)49 b FB(93)399
5034 y(7.5.3)93 b(Certi\014cate)32 b(Request)e(Generation)22
b Fv(:)17 b(:)f(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)52 b FB(96)399
5143 y(7.5.4)93 b Ft(PK)n(CS)29 b FB(#12)i(Structure)f(Generation)10
b Fv(:)16 b(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h
(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)40 b FB(97)275
5253 y(7.6)92 b(Compatibilit)m(y)31 b(with)f(the)h(Op)s(enSSL)d
(Library)12 b Fv(:)j(:)g(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)h(:)f(:)g(:)h(:)f(:)h(:)42 b FB(100)p eop end
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h(:)f(:)g(:)h(:)43 b FB(101)275 193 y(7.8)92 b(Keying)30
b(Material)j(Exp)s(orters)18 b Fv(:)c(:)h(:)h(:)f(:)h(:)f(:)g(:)h(:)f
(:h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)
g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)48 b FB(101)150 435 y
FA(8)135 b(Included)44 b(Programs)18 b Fw(:)j(:)e(:)g(:)h(:)f(:)h(:)f
(:h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)h(:)62 b FA(102)275 572 y FB(8.1)92 b(In)m(v)m(oking)31
b(certto)s(ol)11 b Fv(:)17 b(:)f(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)41
b FB(102)275 682 y(8.2)92 b(In)m(v)m(oking)31 b(gn)m(utls-cli)25
b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)54 b FB(106)399 791
y(8.2.1)93 b(Example)30 b(clien)m(t)i(PSK)e(connection)d
Fv(:)15 b(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)56 b FB(108)275 901
y(8.3)92 b(In)m(v)m(oking)31 b(gn)m(utls-cli-debug)11
b Fv(:)17 b(:)e(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h
(:f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)41 b FB(108)275 1010 y(8.4)92 b(In)m(v)m(oking)31
b(gn)m(utls-serv)10 b Fv(:)15 b(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g
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h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)40
b FB(109)399 1120 y(8.4.1)93 b(Setting)31 b(Up)f(a)h(T)-8
b(est)31 b(HTTPS)e(Serv)m(er)12 b Fv(:)k(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)42
b FB(110)399 1230 y(8.4.2)93 b(Example)30 b(serv)m(er)h(PSK)e
(connection)17 b Fv(:)g(:)e(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
(:f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)47 b FB(113)275
1339 y(8.5)92 b(In)m(v)m(oking)31 b(pskto)s(ol)20 b Fv(:)c(:)f(:)g(:)h
(:f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:g(:)h(:)f(:)h(:)f(:)50 b FB(113)275 1449 y(8.6)92
b(In)m(v)m(oking)31 b(srpto)s(ol)26 b Fv(:)15 b(:)h(:)f(:)h(:)f(:)g(:)h
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f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:g(:)h(:)56 b FB(113)150 1691 y FA(9)135 b(F)-11 b(unction)44
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b FA(115)275 1828 y FB(9.1)92 b(Core)30 b(F)-8 b(unctions)29
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g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)58 b
FB(115)275 1938 y(9.2)92 b Ft(X.509)29 b FB(Certi\014cate)i(F)-8
b(unctions)17 b Fv(:)f(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)

f(:)h(:)f(:)g(:)47 b FB(181)275 2047 y(9.3)92 b Ft(Gn)n(uTLS-extra)29
b FB(F)-8 b(unctions)19 b Fv(:)d(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)
f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f
(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)49 b FB(242)275
2157 y(9.4)92 b Ft(Op)r(enPGP)29 b FB(F)-8 b(unctions)15
b Fv(:)h(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)
h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)45 b FB(242)275 2266 y(9.5)92
b Ft(TLS)30 b FB(Inner)f(Application)i(\Op Ft(TLS/IA)p
FB(\))g(F)-8 b(unctions)26 b Fv(:)16 b(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h
(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)55 b FB(262)275
2376 y(9.6)92 b(Error)29 b(Co)s(des)h(and)g(Descriptions)21
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(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)52
b FB(268)150 2619 y FA(10)135 b(All)45 b(the)g(Supp)t(orted)f
(Ciphersuites)i(in)f Fu(Gn)m(uTLS)439 2751 y Fw(:)19
b(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h
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h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)h(:)f(:)h(:)f(:)64 b FA(275)150
3021 y(11)135 b(Guile)45 b(Bindings)28 b Fw(:)19 b(:)h(:)f(:)g(:)h(:)f
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f(:)h(:)f(:)h(:)f(:)g(:)72 b FA(278)275 3158 y FB(11.1)92
b(Guile)31 b(Preparations)12 b Fv(:)k(:)g(:)f(:)h(:)f(:)g(:)h(:)f(:)h
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(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)f(:)h(:)f(:)g(:)h(:)
f(:)h(:)f(:)58 b FB(279)399 3377 y(11.2.1)93 b(En)m(umerates)31
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(<http://lists.gnu.org/mailman/listinfo/openssl-gnu>)
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(are)g(also)g(a)m(v)-5 b(ailable,)25 b(see)c Fs
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eop end
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%%BeginProlog
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/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/.notdef /.notdef /space /exclam /quotedbl /numbersign /dollar /percent /ampersand /quoteright
/parenleft /parenright /asterisk /plus /comma /hyphen /period /slash /zero /one
/two /three /four /five /six /seven /eight /nine /colon /semicolon
/less /equal /greater /question /at /A /B /C /D /E
/F /G /H /I /J /K /L /M /N /O
/P /Q /R /S /T /U /V /W /X /Y
/Z /bracketleft /backslash /bracketright /asciicircum /underscore /quoteleft /a /b /c
/d /e /f /g /h /i /j /k /l /m
/n /o /p /q /r /s /t /u /v /w
/x /y /z /braceleft /bar /braceright /asciitilde /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/space /exclamdown /cent /sterling /currency /yen /brokenbar /section /dieresis /copyright
/ordfeminine /guillemotleft /logicalnot /hyphen /registered /macron /degree /plusminus /twosuperior /threesuperior
/acute /mu /paragraph /periodcentered /cedilla /onesuperior /ordmasculine /guillemotright /onequarter /onehalf
/threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
/Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
/Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex
/Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
/ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
/eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
/uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
/cp {closepath} bind def
/c {curveto} bind def

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/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gsave {gsave} bind def
/sa {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
  /endangle exch def
  /startangle exch def
  /yrad exch def
  /xrad exch def
  /y exch def
  /x exch def /savematrix mtrx currentmatrix def
  x y tr xrad yrad sc
  0 0 1 startangle endangle arc
  savematrix setmatrix
  end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length

```

```

dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
  /p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
  /p2_x p1_x to_x p0_x sub 1 3 div mul add def
  /p2_y p1_y to_y p0_y sub 1 3 div mul add def
  p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-0.102022 -19.950000 translate
%%EndProlog

1.000000 1.000000 1.000000 srgb
n 0.152022 0.250000 m 0.152022 19.900000 l 31.702022 19.900000 l 31.702022 0.250000 l f
0.100000 slw
[] 0 sd
[] 0 sd
0 slj
0.000000 0.000000 0.000000 srgb
n 0.152022 0.250000 m 0.152022 19.900000 l 31.702022 19.900000 l 31.702022 0.250000 l cp s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 2.600000 9.964440 m 2.600000 12.114440 l 8.528000 12.114440 l 8.528000 9.964440 l f

```

```

0.000000 0.000000 0.000000 srgb
n 2.600000 9.964440 m 2.600000 12.114440 l 8.528000 12.114440 l 8.528000 9.964440 l cp s
1.000000 1.000000 1.000000 srgb
n 2.600000 9.964440 m 3.100000 9.464440 l 9.028000 9.464440 l 8.528000 9.964440 l ef
0.000000 0.000000 0.000000 srgb
n 2.600000 9.964440 m 3.100000 9.464440 l 9.028000 9.464440 l 8.528000 9.964440 l cp s
1.000000 1.000000 1.000000 srgb
n 8.528000 9.964440 m 9.028000 9.464440 l 9.028000 11.614440 l 8.528000 12.114440 l ef
0.000000 0.000000 0.000000 srgb
n 8.528000 9.964440 m 9.028000 9.464440 l 9.028000 11.614440 l 8.528000 12.114440 l cp s
gsave 3.100000 11.064440 translate 0.035278 -0.035278 scale
start_ol
-64 3328 moveto
2816 3328 lineto
2816 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
-64 2944 lineto
-64 3328 lineto
end_ol grestore
gsave 3.472533 11.064440 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
896 3328 lineto
896 384 lineto
2560 384 lineto
2560 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 3.811200 11.064440 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto

```

610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore
gsave 4.200667 11.064440 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.395400 11.064440 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto

1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore
gsave 4.784867 11.064440 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 5.157400 11.064440 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto

1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 5.479133 11.064440 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 5.800867 11.064440 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto

832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 5.970200 11.064440 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 6.342733 11.064440 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto

2560 2027 2560 1509 conicto
 end_of grestore
 0.050000 slw
 n 3.100000 11.214440 m 6.800000 11.214440 l s
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 10.921800 9.744440 m 10.921800 11.894440 l 16.849800 11.894440 l 16.849800 9.744440 l f
 0.000000 0.000000 0.000000 srgb
 n 10.921800 9.744440 m 10.921800 11.894440 l 16.849800 11.894440 l 16.849800 9.744440 l cp s
 1.000000 1.000000 1.000000 srgb
 n 10.921800 9.744440 m 11.421800 9.244440 l 17.349800 9.244440 l 16.849800 9.744440 l ef
 0.000000 0.000000 0.000000 srgb
 n 10.921800 9.744440 m 11.421800 9.244440 l 17.349800 9.244440 l 16.849800 9.744440 l cp s
 1.000000 1.000000 1.000000 srgb
 n 16.849800 9.744440 m 17.349800 9.244440 l 17.349800 11.394440 l 16.849800 11.894440 l ef
 0.000000 0.000000 0.000000 srgb
 n 16.849800 9.744440 m 17.349800 9.244440 l 17.349800 11.394440 l 16.849800 11.894440 l cp s
 gsave 11.421800 10.844440 translate 0.035278 -0.035278 scale
 start_of
 -64 3328 moveto
 2816 3328 lineto
 2816 2944 lineto
 1600 2944 lineto
 1600 0 lineto
 1152 0 lineto
 1152 2944 lineto
 -64 2944 lineto
 -64 3328 lineto
 end_of grestore
 gsave 11.794333 10.844440 translate 0.035278 -0.035278 scale
 start_of
 448 3328 moveto
 896 3328 lineto
 896 384 lineto
 2560 384 lineto
 2560 0 lineto
 448 0 lineto
 448 3328 lineto
 end_of grestore
 gsave 12.133000 10.844440 translate 0.035278 -0.035278 scale
 start_of
 2496 3200 moveto
 2496 2752 lineto
 2234 2882 2001 2945 conicto
 1768 3008 1552 3008 conicto
 1175 3008 971 2863 conicto
 768 2718 768 2452 conicto

768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore
gsave 12.522467 10.844440 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.717200 10.844440 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto

2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore
gsave 13.106667 10.844440 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 13.479200 10.844440 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto

2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 13.800933 10.844440 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto

765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 14.122667 10.844440 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 14.292000 10.844440 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 14.664533 10.844440 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
0.050000 slw
n 11.421800 10.994440 m 15.121800 10.994440 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 8.571850 1.477775 3.100000 1.033333 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 8.571850 1.477775 3.100000 1.033333 0 360 ellipse cp s
gsave 6.743050 1.677775 translate 0.035278 -0.035278 scale
start_ol
2752 493 moveto
2752 1408 lineto
1984 1408 lineto
1984 1792 lineto
3200 1792 lineto
3200 325 lineto
2936 133 2617 34 conicto
2299 -64 1938 -64 conicto
1148 -64 702 392 conicto
256 848 256 1663 conicto
256 2480 706 2936 conicto
1156 3392 1952 3392 conicto
2285 3392 2584 3310 conicto
2883 3229 3136 3072 conicto
3136 2624 lineto
2877 2815 2586 2911 conicto
2295 3008 1973 3008 conicto
1340 3008 1022 2670 conicto
704 2332 704 1663 conicto
704 996 1020 658 conicto
1336 320 1965 320 conicto
2212 320 2405 362 conicto
2598 405 2752 493 conicto
end_ol grestore
gsave 7.217183 1.677775 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto

832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 7.386517 1.677775 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 7.759050 1.677775 translate 0.035278 -0.035278 scale
start_of
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
832 2112 moveto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
832 0 lineto
448 0 lineto
448 3520 lineto

832 3520 lineto
832 2112 lineto
end_ol grestore
gsave 8.148517 1.677775 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 8.521050 1.677775 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 8.690383 1.677775 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.885117 1.677775 translate 0.035278 -0.035278 scale

start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 9.206850 1.677775 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto

128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 9.443917 1.677775 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 9.816450 1.677775 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto

1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 10.053517 1.677775 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
0.100000 slw
[] 0 sd
0 slj
0 slc
n 13.885800 8.832637 m 13.885800 5.300000 l 10.763881 5.300000 l 10.763881 2.208452 l s
0 slj
1.000000 1.000000 1.000000 srgb
n 13.485800 8.832637 m 13.885800 9.632637 l 14.285800 8.832637 l ef
0.100000 slw
[] 0 sd
0 slj

0.000000 0.000000 0.000000 srgb
n 13.485800 8.832637 m 13.885800 9.632637 l 14.285800 8.832637 l cp s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 5.564000 9.052637 m 5.564000 6.237774 l 8.571850 6.237774 l 8.571850 2.511109 l s
0 slj
1.000000 1.000000 1.000000 srgb
n 5.164000 9.052637 m 5.564000 9.852637 l 5.964000 9.052637 l ef
0.100000 slw
[] 0 sd
0 slj
0.000000 0.000000 0.000000 srgb
n 5.164000 9.052637 m 5.564000 9.852637 l 5.964000 9.052637 l cp s
0.100000 slw
[1.000000] 0 sd
[0.400000] 0 sd
0 slj
0 slc
n 25.572000 2.762382 m 25.572000 6.600000 l 7.000000 6.600000 l 7.000000 9.259179 l s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 6.750000 8.626809 m 7.000000 9.426809 l 7.250000 8.626809 l s
0.100000 slw
[0.400000] 0 sd
[0.400000] 0 sd
0 slj
0 slc
n 23.468357 2.469489 m 23.468357 7.300000 l 15.850000 7.300000 l 15.850000 9.259179 l s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 15.600000 8.626809 m 15.850000 9.426809 l 16.100000 8.626809 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
0 slj
0 slc
0 slj
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 25.407901 11.885293 m 25.407901 15.102457 l 29.054019 15.102457 l 29.054019 11.885293 l f
0 slc

0 slj
 [] 0 sd
 n 27.230960 15.102457 1.823059 0.536194 0 360 ellipse f
 0 slc
 0 slj
 [] 0 sd
 n 27.230960 11.885293 1.823059 0.536194 0 360 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 27.230960 11.885293 1.823059 0.536194 0 360 ellipse cp s
 0 slc
 0 slj
 [] 0 sd
 n 29.054019 11.885293 m 29.054019 15.102457 1 29.054019 15.398589 28.237808 15.638651 27.230960
 15.638651 c 26.224112 15.638651 25.407901 15.398589 25.407901 15.102457 c 25.407901 11.885293 l s
 gsave 24.657076 16.238651 translate 0.035278 -0.035278 scale
 start_ol
 2304 3200 moveto
 2304 2752 lineto
 2096 2879 1887 2943 conicto
 1679 3008 1466 3008 conicto
 1143 3008 955 2859 conicto
 768 2711 768 2459 conicto
 768 2237 889 2120 conicto
 1011 2004 1345 1926 conicto
 1581 1871 lineto
 2059 1763 2277 1531 conicto
 2496 1299 2496 900 conicto
 2496 430 2199 183 conicto
 1903 -64 1337 -64 conicto
 1100 -64 862 -16 conicto
 624 32 384 128 conicto
 384 576 lineto
 640 444 868 382 conicto
 1097 320 1329 320 conicto
 1670 320 1859 467 conicto
 2048 614 2048 878 conicto
 2048 1118 1917 1244 conicto
 1787 1370 1463 1439 conicto
 1222 1496 lineto
 748 1602 534 1817 conicto
 320 2032 320 2394 conicto
 320 2847 625 3119 conicto
 931 3392 1438 3392 conicto
 1633 3392 1849 3343 conicto
 2066 3295 2304 3200 conicto
 end_ol grestore
 gsave 25.021143 16.238651 translate 0.035278 -0.035278 scale
 start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 25.385210 16.238651 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 25.749276 16.238651 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 26.113343 16.238651 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 26.477410 16.238651 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 26.841476 16.238651 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 27.205543 16.238651 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 27.569610 16.238651 translate 0.035278 -0.035278 scale
start_ol
990 384 moveto
1581 384 1814 660 conicto
2048 937 2048 1660 conicto
2048 2390 1815 2667 conicto
1583 2944 990 2944 conicto
768 2944 lineto
768 384 lineto
990 384 lineto
1000 3328 moveto
1768 3328 2132 2922 conicto
2496 2517 2496 1661 conicto
2496 809 2132 404 conicto
1768 0 1000 0 conicto
320 0 lineto
320 3328 lineto
1000 3328 lineto
end_ol grestore
gsave 27.933676 16.238651 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto

2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 28.297743 16.238651 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 28.661810 16.238651 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto

2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of_grestore
gsave 29.025876 16.238651 translate 0.035278 -0.035278 scale
start_of
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto

832 2207 lineto
end_of grestore
gsave 29.389943 16.238651 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.754010 16.238651 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 30.118076 16.238651 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore

gsave 26.299610 17.038651 translate 0.035278 -0.035278 scale

start_ol

832 1600 moveto

832 384 lineto

1370 384 lineto

1770 384 1941 520 conicto

2112 657 2112 971 conicto

2112 1296 1932 1448 conicto

1752 1600 1370 1600 conicto

832 1600 lineto

832 2944 moveto

832 1984 lineto

1361 1984 lineto

1690 1984 1837 2103 conicto

1984 2223 1984 2490 conicto

1984 2731 1839 2837 conicto

1694 2944 1361 2944 conicto

832 2944 lineto

384 3328 moveto

1370 3328 lineto

1880 3328 2156 3110 conicto

2432 2893 2432 2495 conicto

2432 2193 2287 2019 conicto

2143 1846 1854 1802 conicto

2185 1752 2372 1519 conicto

2560 1286 2560 925 conicto

2560 467 2261 233 conicto

1962 0 1370 0 conicto

384 0 lineto

384 3328 lineto

end_ol grestore

gsave 26.663676 17.038651 translate 0.035278 -0.035278 scale

start_ol

1633 1280 moveto

1485 1280 lineto

1097 1280 900 1148 conicto

704 1016 704 754 conicto

704 518 851 387 conicto

999 256 1259 256 conicto

1626 256 1835 502 conicto

2045 749 2048 1184 conicto

2048 1280 lineto

1633 1280 lineto

2432 1449 moveto

2432 0 lineto

2048 0 lineto

2048 353 lineto

1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 27.027743 17.038651 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 27.391810 17.038651 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto

1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 27.755876 17.038651 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 28.119943 17.038651 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 28.484010 17.038651 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 9.075000 18.344400 6.775000 1.200000 0 360 ellipse f
0.100000 slw
[] 0 sd
[] 0 sd
0.000000 0.000000 0.000000 srgb
n 9.075000 18.344400 6.775000 1.200000 0 360 ellipse cp s
gsave 6.027967 18.644400 translate 0.035278 -0.035278 scale
start_ol
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto

1152 2944 lineto
128 2944 lineto
128 3328 lineto
end_of grestore
gsave 6.392033 18.644400 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 6.756100 18.644400 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 7.120167 18.644400 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.484233 18.644400 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 7.848300 18.644400 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 8.212367 18.644400 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto

2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 8.576433 18.644400 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 8.940500 18.644400 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 9.304567 18.644400 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 9.668633 18.644400 translate 0.035278 -0.035278 scale
start_of
512 3328 moveto
960 3328 lineto
960 384 lineto
2560 384 lineto
2560 0 lineto
512 0 lineto
512 3328 lineto
end_of grestore
gsave 10.032700 18.644400 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto

1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 10.396767 18.644400 translate 0.035278 -0.035278 scale
start_of
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_of grestore
gsave 10.760833 18.644400 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto

741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.124900 18.644400 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 25.572000 1.762382 2.975000 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 25.572000 1.762382 2.975000 1.000000 0 360 ellipse cp s
gsave 23.861733 1.962382 translate 0.035278 -0.035278 scale
start_of
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto
1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto

end_of grestore
gsave 24.285067 1.962382 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 24.522133 1.962382 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 24.894667 1.962382 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto

2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave 25.284133 1.962382 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 25.656667 1.962382 translate 0.035278 -0.035278 scale

start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 26.046133 1.962382 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 26.283200 1.962382 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto

448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 26.452533 1.962382 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 26.825067 1.962382 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 26.994400 1.962382 translate 0.035278 -0.035278 scale

start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
0.100000 slw
0 slc
[] 0 sd
1.000000 0.000000 0.000000 srgb
n 13.868706 16.645877 m 13.885800 11.894400 l s
0 slj
n 13.618708 16.644978 m 13.865828 17.445872 l 14.118705 16.646777 l ef
0.100000 slw
0 slc
[] 0 sd
n 13.509566 12.699490 m 13.486950 17.350000 l s
0 slj
n 13.759563 12.700706 m 13.513457 11.899499 l 13.259569 12.698274 l ef
0.100000 slw
0 slc
[] 0 sd
n 5.028982 13.024166 m 3.886950 17.550000 l s

0 slj
n 5.271384 13.085333 m 5.224716 12.248480 l 4.786581 12.962999 l ef
0.100000 slw
[1.000000] 0 sd
[0.400000] 0 sd
0 slj
0 slc
0.000000 0.000000 0.000000 srgb
n 5.564000 12.114440 m 5.564000 13.014440 l 16.122480 13.014440 l 16.122480 14.050000 l 27.230960
14.050000 l 27.230960 15.303390 l s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 26.980960 14.671020 m 27.230960 15.471020 l 27.480960 14.671020 l s
0.100000 slw
[0.400000] 0 sd
[0.400000] 0 sd
0 slj
0 slc
n 16.849800 10.819440 m 17.849800 10.819440 l 17.849800 9.819440 l 27.230960 9.819440 l 27.230960
11.013838 l s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 26.980960 10.381469 m 27.230960 11.181469 l 27.480960 10.381469 l s
0.100000 slw
0 slc
[] 0 sd
1.000000 0.000000 0.000000 srgb
n 4.480990 16.668930 m 5.564000 12.114440 l s
0 slj
n 4.237772 16.611095 m 4.295919 17.447228 l 4.724208 16.726764 l ef
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4472 y(This)35 b(session)g(calls)i(directly)f(to)g(the)g(transp)s(ort)e
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4582 y(the)31 b(p)s(eer.)40 b(Ev)m(ery)30 b(session)h(has)f(a)h(unique)
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 /less /equal /greater /question /at /A /B /C /D /E
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 /threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
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 /Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
 /ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
 /eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
 /uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
 /cp {closepath} bind def
 /c {curveto} bind def
 /f {fill} bind def
 /a {arc} bind def
 /ef {eofill} bind def
 /ex {exch} bind def
 /gr {grestore} bind def
 /gs {gsave} bind def
 /sa {save} bind def
 /rs {restore} bind def
 /l {lineto} bind def
 /m {moveto} bind def
 /rm {rmoveto} bind def
 /n {newpath} bind def
 /s {stroke} bind def
 /sh {show} bind def
 /slc {setlinecap} bind def
 /slj {setlinejoin} bind def
 /slw {setlinewidth} bind def
 /srgb {setrgbcolor} bind def
 /rot {rotate} bind def
 /sc {scale} bind def
 /sd {setdash} bind def
 /ff {findfont} bind def
 /sf {setfont} bind def

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/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
/endangle exch def
/startangle exch def
/yrad exch def
/xrad exch def
/y exch def
/x exch def /savematrix mtrx currentmatrix def
x y tr xrad yrad sc
0 0 1 startangle endangle arc
savematrix setmatrix
end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
/to_y exch def
/to_x exch def
/conic_cntrl_y exch def
/conic_cntrl_x exch def
currentpoint
/p0_y exch def
/p0_x exch def

```

```

/p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
/p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
/p2_x p1_x to_x p0_x sub 1 3 div mul add def
/p2_y p1_y to_y p0_y sub 1 3 div mul add def
p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-2.853250 -14.882860 translate
%%EndProlog

```

```

0.100000 slw
[] 0 sd
[] 0 sd
0 slc
0 slj
0 slc
0 slj
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 2.925200 11.305477 m 7.825200 10.776369 10.275200 10.600000 15.175200 10.600000 c 20.075200 10.600000
22.525200 10.776369 27.425200 11.305477 c 27.425200 14.127383 1 22.525200 14.656491 20.075200 14.832860
15.175200 14.832860 c 10.275200 14.832860 7.825200 14.656491 2.925200 14.127383 c 2.925200 11.305477 1 ef
0.000000 0.000000 0.000000 srgb
n 2.925200 11.305477 m 7.825200 10.776369 10.275200 10.600000 15.175200 10.600000 c 20.075200 10.600000
22.525200 10.776369 27.425200 11.305477 c 27.425200 14.127383 1 22.525200 14.656491 20.075200 14.832860
15.175200 14.832860 c 10.275200 14.832860 7.825200 14.656491 2.925200 14.127383 c 2.925200 11.305477 1 s
0 slc
0 slj
[] 0 sd
n 2.925200 11.305477 m 7.825200 11.834584 10.275200 12.010953 15.175200 12.010953 c 20.075200 12.010953
22.525200 11.834584 27.425200 11.305477 c s
gsave 12.271133 13.269168 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.635200 13.269168 translate 0.035278 -0.035278 scale
start_ol
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
128 2944 lineto
128 3328 lineto

```

end_of grestore
gsave 12.999267 13.269168 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 13.363333 13.269168 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto

744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 13.727400 13.269168 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.091467 13.269168 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 14.455533 13.269168 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 14.819600 13.269168 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto

1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 15.183667 13.269168 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 15.547733 13.269168 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_ol grestore
gsave 15.911800 13.269168 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.275867 13.269168 translate 0.035278 -0.035278 scale
start_ol
512 3328 moveto
960 3328 lineto
960 384 lineto
2560 384 lineto
2560 0 lineto
512 0 lineto
512 3328 lineto
end_ol grestore
gsave 16.639933 13.269168 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 17.004000 13.269168 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 17.368067 13.269168 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore

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gsave 17.732133 13.269168 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 18.096200 13.269168 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.460267 13.269168 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
0 slj
0 slc
0 slj
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 2.925200 7.452367 m 7.815200 6.850590 10.260200 6.649998 15.150200 6.649998 c 20.040200 6.649998
22.485200 6.850590 27.375200 7.452367 c 27.375200 10.661843 l 22.485200 11.263620 20.040200 11.464212
15.150200 11.464212 c 10.260200 11.464212 7.815200 11.263620 2.925200 10.661843 c 2.925200 7.452367 l ef
0.000000 0.000000 0.000000 srgb
n 2.925200 7.452367 m 7.815200 6.850590 10.260200 6.649998 15.150200 6.649998 c 20.040200 6.649998
22.485200 6.850590 27.375200 7.452367 c 27.375200 10.661843 l 22.485200 11.263620 20.040200 11.464212
15.150200 11.464212 c 10.260200 11.464212 7.815200 11.263620 2.925200 10.661843 c 2.925200 7.452367 l s
0 slc
0 slj
[] 0 sd
n 2.925200 7.452367 m 7.815200 8.054144 10.260200 8.254736 15.150200 8.254736 c 20.040200 8.254736
22.485200 8.054144 27.375200 7.452367 c s
gsave 12.622900 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

```

gsave 12.986967 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.351033 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.715100 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.079167 9.258289 translate 0.035278 -0.035278 scale
start_ol
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
128 2944 lineto
128 3328 lineto
end_ol grestore
gsave 14.443233 9.258289 translate 0.035278 -0.035278 scale
start_ol
512 3328 moveto
960 3328 lineto
960 384 lineto
2560 384 lineto
2560 0 lineto
512 0 lineto
512 3328 lineto
end_ol grestore
gsave 14.807300 9.258289 translate 0.035278 -0.035278 scale
start_ol
2304 3200 moveto
2304 2752 lineto
2096 2879 1887 2943 conicto
1679 3008 1466 3008 conicto
1143 3008 955 2859 conicto
768 2711 768 2459 conicto
768 2237 889 2120 conicto
1011 2004 1345 1926 conicto
1581 1871 lineto
2059 1763 2277 1531 conicto
2496 1299 2496 900 conicto
2496 430 2199 183 conicto
1903 -64 1337 -64 conicto
1100 -64 862 -16 conicto
624 32 384 128 conicto

384 576 lineto
640 444 868 382 conicto
1097 320 1329 320 conicto
1670 320 1859 467 conicto
2048 614 2048 878 conicto
2048 1118 1917 1244 conicto
1787 1370 1463 1439 conicto
1222 1496 lineto
748 1602 534 1817 conicto
320 2032 320 2394 conicto
320 2847 625 3119 conicto
931 3392 1438 3392 conicto
1633 3392 1849 3343 conicto
2066 3295 2304 3200 conicto
end_ol grestore
gsave 15.171367 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.535433 9.258289 translate 0.035278 -0.035278 scale
start_ol
1706 1579 moveto
1875 1534 1993 1409 conicto
2112 1285 2290 910 conicto
2752 0 lineto
2260 0 lineto
1884 841 lineto
1708 1201 1569 1304 conicto
1430 1408 1205 1408 conicto
768 1408 lineto
768 0 lineto
320 0 lineto
320 3328 lineto
1251 3328 lineto
1791 3328 2079 3082 conicto
2368 2836 2368 2369 conicto
2368 2041 2194 1833 conicto
2021 1626 1706 1579 conicto
768 2944 moveto
768 1792 lineto
1269 1792 lineto
1598 1792 1759 1933 conicto
1920 2075 1920 2366 conicto
1920 2647 1748 2795 conicto
1577 2944 1251 2944 conicto
768 2944 lineto
end_ol grestore
gsave 15.899500 9.258289 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 16.263567 9.258289 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 16.627633 9.258289 translate 0.035278 -0.035278 scale
start_ol

1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 16.991700 9.258289 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 17.355767 9.258289 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto

256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 17.719833 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.083900 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.447967 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.812033 9.258289 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.723567 10.058289 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1459 1728 lineto
1797 1728 1986 1888 conicto
2176 2049 2176 2337 conicto
2176 2625 1988 2784 conicto
1800 2944 1459 2944 conicto
896 2944 lineto
448 3328 moveto
1459 3328 lineto
2033 3328 2328 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2329 1595 conicto
2035 1344 1459 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore

gsave 14.087633 10.058289 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 14.451700 10.058289 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 14.815767 10.058289 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 15.179833 10.058289 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 15.543900 10.058289 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 15.907967 10.058289 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 16.272033 10.058289 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
0.100000 slw
[] 0 sd
[] 0 sd

0 slc
 0 slj
 0 slc
 0 slj
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 2.903250 3.602367 m 7.799070 3.000590 10.246980 2.799998 15.142800 2.799998 c 20.038620 2.799998
 22.486530 3.000590 27.382350 3.602367 c 27.382350 6.811843 l 22.486530 7.413620 20.038620 7.614212
 15.142800 7.614212 c 10.246980 7.614212 7.799070 7.413620 2.903250 6.811843 c 2.903250 3.602367 l ef
 0.000000 0.000000 0.000000 srgb
 n 2.903250 3.602367 m 7.799070 3.000590 10.246980 2.799998 15.142800 2.799998 c 20.038620 2.799998
 22.486530 3.000590 27.382350 3.602367 c 27.382350 6.811843 l 22.486530 7.413620 20.038620 7.614212
 15.142800 7.614212 c 10.246980 7.614212 7.799070 7.413620 2.903250 6.811843 c 2.903250 3.602367 l s
 0 slc
 0 slj
 [] 0 sd
 n 2.903250 3.602367 m 7.799070 4.204144 10.246980 4.404736 15.142800 4.404736 c 20.038620 4.404736
 22.486530 4.204144 27.382350 3.602367 c s
 0.100000 slw
 [] 0 sd
 [] 0 sd
 0 slc
 n 20.275300 4.378600 m 20.312600 7.538690 l s
 0.100000 slw
 [] 0 sd
 [] 0 sd
 0 slc
 n 12.075200 7.582860 m 12.125200 4.382860 l s
 gsave 14.653250 5.850000 translate 0.035278 -0.035278 scale
 start_ol
 -64 3328 moveto
 2816 3328 lineto
 2816 2944 lineto
 1600 2944 lineto
 1600 0 lineto
 1152 0 lineto
 1152 2944 lineto
 -64 2944 lineto
 -64 3328 lineto
 end_ol grestore
 gsave 15.025783 5.850000 translate 0.035278 -0.035278 scale
 start_ol
 448 3328 moveto
 896 3328 lineto
 896 384 lineto
 2560 384 lineto
 2560 0 lineto
 448 0 lineto

448 3328 lineto
end_of grestore
gsave 15.364450 5.850000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 15.753917 5.850000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 15.948650 5.850000 translate 0.035278 -0.035278 scale
start_of
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto

847 832 lineto
542 0 lineto
64 0 lineto
1344 3328 lineto
end_of grestore
gsave 16.363517 5.850000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 16.532850 5.850000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 16.905383 5.850000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 17.159383 5.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 14.653250 6.650000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto

448 0 lineto
448 3328 lineto
end_of grestore
gsave 15.008850 6.650000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 15.245917 6.650000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 15.618450 6.650000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto

832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 15.855517 6.650000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 16.228050 6.650000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto

2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 16.566717 6.650000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 16.939250 6.650000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 6.253250 5.500000 translate 0.035278 -0.035278 scale
start_ol
-64 3328 moveto
2816 3328 lineto
2816 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto

1152 2944 lineto
-64 2944 lineto
-64 3328 lineto
end_of grestore
gsave 6.625783 5.500000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
896 3328 lineto
896 384 lineto
2560 384 lineto
2560 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 6.964450 5.500000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 7.353917 5.500000 translate 0.035278 -0.035278 scale
start_of

end_of grestore
gsave 7.548650 5.500000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
896 3328 lineto
896 1984 lineto
2560 1984 lineto
2560 3328 lineto
3008 3328 lineto
3008 0 lineto
2560 0 lineto
2560 1600 lineto
896 1600 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 8.005850 5.500000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto

2368 2009 2368 1449 conicto
end_of grestore
gsave 8.378383 5.500000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 8.767850 5.500000 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore

gsave 9.157317 5.500000 translate 0.035278 -0.035278 scale

start_ol

2048 2432 moveto

2048 2048 lineto

1868 2144 1674 2192 conicto

1480 2240 1273 2240 conicto

957 2240 798 2144 conicto

640 2048 640 1856 conicto

640 1709 757 1625 conicto

875 1542 1229 1467 conicto

1380 1435 lineto

1812 1341 1994 1170 conicto

2176 999 2176 692 conicto

2176 343 1899 139 conicto

1622 -64 1137 -64 conicto

936 -64 717 -32 conicto

498 0 256 64 conicto

256 512 lineto

490 385 718 320 conicto

947 256 1170 256 conicto

1470 256 1631 358 conicto

1792 461 1792 647 conicto

1792 820 1670 912 conicto

1549 1004 1141 1089 conicto

988 1123 lineto

600 1203 428 1369 conicto

256 1535 256 1824 conicto

256 2177 510 2368 conicto

765 2560 1233 2560 conicto

1466 2560 1670 2528 conicto

1875 2496 2048 2432 conicto

end_ol grestore

gsave 9.479050 5.500000 translate 0.035278 -0.035278 scale

start_ol

2560 1509 moveto

2560 0 lineto

2176 0 lineto

2176 1496 lineto

2176 1869 2029 2054 conicto

1883 2240 1590 2240 conicto

1238 2240 1035 2018 conicto

832 1796 832 1413 conicto

832 0 lineto

448 0 lineto

448 3520 lineto

832 3520 lineto

832 2112 lineto

983 2337 1188 2448 conicto

1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 9.868517 5.500000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 10.241050 5.500000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto

832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 10.571250 5.500000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 6.253250 6.300000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.447983 6.300000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.642717 6.300000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.837450 6.300000 translate 0.035278 -0.035278 scale
start_of
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto

448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 7.193050 6.300000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 7.430117 6.300000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto

869 2560 1408 2560 conicto
end_of grestore
gsave 7.802650 6.300000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 8.039717 6.300000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 8.412250 6.300000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto

2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 8.750917 6.300000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 9.123450 6.300000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore

gsave 21.953250 5.600000 translate 0.035278 -0.035278 scale
start_ol
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto
847 832 lineto
542 0 lineto
64 0 lineto
1344 3328 lineto
end_ol grestore
gsave 22.368117 5.600000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 22.757583 5.600000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 23.147050 5.600000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 23.316383 5.600000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 23.485717 5.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto

704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 23.824383 5.600000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore

gsave 24.196917 5.600000 translate 0.035278 -0.035278 scale

start_ol

832 3200 moveto

832 2496 lineto

1664 2496 lineto

1664 2176 lineto

832 2176 lineto

832 804 lineto

832 495 914 407 conicto

997 320 1248 320 conicto

1664 320 lineto

1664 0 lineto

1248 0 lineto

793 0 620 173 conicto

448 347 448 804 conicto

448 2176 lineto

128 2176 lineto

128 2496 lineto

448 2496 lineto

448 3200 lineto

832 3200 lineto

end_ol grestore

gsave 24.433983 5.600000 translate 0.035278 -0.035278 scale

start_ol

448 2496 moveto

832 2496 lineto

832 0 lineto

448 0 lineto

448 2496 lineto

448 3520 moveto

832 3520 lineto

832 3008 lineto

448 3008 lineto

448 3520 lineto

end_ol grestore

gsave 24.603317 5.600000 translate 0.035278 -0.035278 scale

start_ol

1409 2240 moveto

1083 2240 893 1974 conicto

704 1709 704 1248 conicto

704 787 892 521 conicto

1081 256 1409 256 conicto

1733 256 1922 522 conicto

2112 789 2112 1248 conicto

2112 1705 1922 1972 conicto

1733 2240 1409 2240 conicto

1408 2560 moveto

1946 2560 2253 2212 conicto

2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 24.975850 5.600000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
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1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 21.953250 6.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 22.147983 6.400000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto

896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 22.503583 6.400000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 22.740650 6.400000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 23.113183 6.400000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto

1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 23.350250 6.400000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 23.722783 6.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto

1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 24.061450 6.400000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 24.433983 6.400000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
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m(y)m(er,)i(it)f(can)f(b)s(e)g(used)f(ab)s(o)m(v)m(e)j(an)m(y)e(transp)
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677 y FB(the)j(required)e(callbac)m(ks)j(to)g(access)f(the)g(transp)s
(ort)e(la)m(y)m(er.)225 804 y Fy(\017)60 b FB([gn)m(utls)p
601 804 28 4 v 41 w(transp)s(ort)p 1015 804 V 39 w(set)p
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1015 1057 V 39 w(set)p 1165 1057 V 41 w(ptr],)30 b(page)h(180)225
1184 y Fy(\017)60 b FB([gn)m(utls)p 601 1184 V 41 w(transp)s(ort)p
1015 1184 V 39 w(set)p 1165 1184 V 41 w(lo)m(w)m(at],)32
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150 4994 y(parameters)k(are)f(all)i(set)f(b)m(y)f(the)g(Handshak)m(e)h
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1101 V 42 w(get)p 1011 1101 V 41 w(hin)m(t,)31 b(page)g(159.)150
1246 y(There)39 b(is)h(no)f(standard)g(mec)m(hanism)h(to)g(deriv)m(e)g
(a)g(PSK)e(k)m(ey)j(from)e(a)h(passw)m(ord)e(sp)s(eci\014ed)h(b)m(y)h
(the)150 1356 y(TLS)23 b(PSK)f(do)s(cumen)m(t.)39 b(Ho)m(w)m(ev)m(er,)
27 b(Gn)m(uTLS)22 b(pro)m(vides)i([gn)m(utls)p 2382 1356
V 41 w(psk)p 2558 1356 V 39 w(netconf)p 2887 1356 V 40
w(deriv)m(e)p 3164 1356 V 41 w(k)m(ey,)i(page)f(160)150
1465 y(whic)m(h)30 b(follo)m(ws)i(the)e(algorithm)i(sp)s(eci\014ed)d
(in)h(^)p Fs(draft-ietf-netconf-tls-02.)o(txt)p FB(')150
1610 y(Some)g(help)s(er)g(functions)g(suc)m(h)g(as:)225
1755 y Fy(\017)60 b FB([gn)m(utls)p 601 1755 V 41 w(hex)p
781 1755 V 40 w(enco)s(de,)31 b(page)g(149)225 1894
y Fy(\017)60 b FB([gn)m(utls)p 601 1894 V 41 w(hex)p
781 1894 V 40 w(deco)s(de,)31 b(page)g(149)150 2069
y(are)g(included)e(in)h Ft(Gn)n(uTLS)p FB(,)h(and)f(ma)m(y)h(b)s(e)f
(used)f(to)i(generate)h(and)e(main)m(tain)h Ft(PSK)f
FB(k)m(ey.s.)150 2317 y FA(4.5)68 b(Authen)l(tication)46
b(and)f(Creden)l(tials)150 2476 y FB(In)27 b Ft(Gn)n(uTLS)i
FB(ev)m(ery)g(k)m(ey)f(exc)m(hange)i(metho)s(d)e(is)g(asso)s(ciated)i
(with)d(a)i(creden)m(tials)g(t)m(y)p)s(e.)41 b(So)28 b(in)g(order)f(to)
150 2586 y(enable)i(to)g(enable)g(a)f(sp)s(eci\014c)h(metho)s(d,)f(the)
g(corresp)s(onding)g(creden)m(tials)i(t)m(y)p)s(e)e(should)f(b)s(e)h
(initialized)150 2696 y(and)i(set)h(using)f([gn)m(utls)p
978 2696 V 40 w(creden)m(tials)p 1439 2696 V 42 w(set,)h(page)g(134.)
42 b(A)31 b(mapping)e(is)i(sho)m(w)n)f(b)s(elo)m(w.)150
2840 y(Key)g(exc)m(hange)i(algorithms)g(and)d(the)i(corresp)s(onding)e
(creden)m(tial)j(t)m(y)p)s(es:)150 3095 y Fn(Key)f(exc)m(hange)628
b(Clien)m(t)31 b(creden)m(tials)381 b(Serv)m(er)31 b(creden)m(tials)150
3312 y Fs(KX_RSA)150 3422 y(KX_DHE_RSA)150 3532 y(KX_DHE_DSS)150
3641 y(KX_RSA_EXPORT)556 b(CRD_CERTIFICATE)360 b(CRD_CERTIFICATE)150
3859 y(KX_SRP_RSA)700 b(CRD_SRP)744 b(CRD_SRP)150 3968
y(KX_SRP_DSS)1780 b(CRD_CERTIFICATE)150 4186 y(KX_SRP)892
b(CRD_SRP)744 b(CRD_SRP)150 4404 y(KX_ANON_DH)700 b(CRD_ANON)c
(CRD_ANON)150 4621 y(KX_PSK)892 b(CRD_PSK)744 b(CRD_PSK)150
4961 y FA(4.6)68 b(P)l(arameters)47 b(Stored)e(in)g(Creden)l(tials)150
5121 y FB(Sev)m(eral)24 b(parameters)f(suc)m(h)g(as)g(the)g(ones)g
(used)f(for)g(Di\016e-Hellman)j(authen)m(tication)g(are)f(stored)e
(within)150 5230 y(the)40 b(creden)m(tials)h(structures,)g(so)f(all)g
(sessions)f(can)h(access)h(them.)68 b(Those)39 b(parameters)h(are)g

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(stored)150 5340 y(in)32 b(structures)g(suc)m(h)g(as)g
Fs(gnutls_dh_params_t)c FB(and)j Fs(gnutls_rsa_params_t)p
FB(,)d(and)k(functions)g(lik)m(e)p eop end
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2768 299 V 42 w(set)p 2921 299 V 41 w(rsa)p 3079 299
V 40 w(exp)s(ort)p 3377 299 V 40 w(params,.)150 408 y(page)31
b(123)h(can)e(b)s(e)g(used)g(to)h(asso)s(ciate)h(those)f(parameters)g
(with)f(the)g(giv)m(en)i(creden)m(tials)g(structure.)150
543 y(Since)47 b(those)h(parameters)g(need)e(to)i(b)s(e)f(renew)m(ed)g
(from)g(time)h(to)g(time)g(and)e(a)i(global)g(structure)150
653 y(suc)m(h)39 b(as)h(the)g(creden)m(tials,k(ma)m(y)c(not)g(b)s(e)f
(easy)i(to)f(mo)s(dify)f(since)h(it)g(is)g(accessible)h(b)m(y)f(all)h
(sessions,.)150 762 y(an)d(alternativ)m(e)j(in)m(terface)f(is)e(a)m(v)-5
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1006 y Fs(#include)46 b(<gnutls.h>)390 1225 y(gnutls_rsa_params_t)d
(rsa_params;)390 1335 y(gnutls_dh_params_t)g(dh_params;)390
1554 y(/*)k(This)g(function)e(will)i(be)g(called)f(once)h(a)g(session)f
(requests)g(DH)438 1664 y(*)h(or)g(RSA)g(parameters.)e(The)i
(parameters)e(returned)g(\(if)i(any\))g(will)438 1773
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2760 y(st->params.dh)d(=)i(dh_params;)533 2869 y(else)g(return)f(-1;)
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3746 y({)390 3965 y(int)h(main\(\))390 4075 y({)533 4184
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4403 y(initialize_params\(\);)533 4623 y(/*)47 b(...)581
4732 y(*)/533 4951 y(gnutls_certificate_set_pa)o(rams)o(_fu)o(ncti)o
(on\()41 b(cert_cred,)k(get_params\());390 5061 y({)p
eop end
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b(23)150 299 y Fx(5)80 b(More)54 b(on)f(Certi\014cate)e(Authen)l
(tication)150 609 y FA(5.1)68 b(The)45 b Fu(X.509)g FA(T)-11
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FB(proto)s(cols)i(rely)f(on)h(a)f(hierarc)m(hical)i(trust)e(mo)s(del.)
61 b(In)37 b(this)g(trust)g(mo)s(del)g(Certi\014cation)150
878 y(Authorities)21 b(\(CAs\))g(are)f(used)g(to)h(certify)g(en)m
(tities.)39 b(Usually)21 b(more)f(than)g(one)h(cert\014cation)h
(authorities)150 987 y(exist,)30 b(and)e(cert\014cation)i(authorities)
g(ma)m(y)f(certify)g(other)g(authorities)h(to)f(issue)f(cert\014cates)
j(as)e(w)m(ell,)150 1097 y(follo)m(wing)j(a)f(hierarc)m(hical)g(mo)s
(del.)150 3453 y @beginspecial 0 @llx 0 @lly 470 @urx
617 @ury 1984 @rwi @setspecial
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%!PS-Adobe-2.0 EPSF-2.0
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%%Creator: Dia v0.90
%%CreationDate: Thu Sep 5 21:44:57 2002
%%For: a user
%%Magnification: 1.0000
%%Orientation: Portrait
%%BoundingBox: 0 0 470 617
%%Pages: 1
%%EndComments
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/cp {closepath} bind def
/c {curveto} bind def
/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gs {gsave} bind def
/sa {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def

```

/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
  /endangle exch def
  /startangle exch def
  /yrad exch def
  /xrad exch def
  /y exch def
  /x exch def /savematrix mtrx currentmatrix def
  x y tr xrad yrad sc
  0 0 1 startangle endangle arc
  savematrix setmatrix
  end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
%%EndProlog

%%BeginSetup
%%EndSetup
28.346000 -28.346000 scale
-0.000000 -21.685957 translate

0.100000 slw
[] 0 sd

```

```

1.000000 1.000000 1.000000 srgb
n 2.600000 13.250000 0.300000 0.300000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 2.600000 13.250000 0.300000 0.300000 0 360 ellipse cp s
n 1.400000 13.850000 m 3.800000 13.850000 l s
n 2.600000 13.550000 m 2.600000 15.050000 l s
n 2.600000 15.050000 m 1.400000 16.350000 l s
n 2.600000 15.050000 m 3.800000 16.350000 l s
[ /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi
/xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi
/A /l /i /c /e /B /o /b /xi /xi /R /t /space /C /I /W
/S /r /v /T /w /y /p /a /X /period /five /zero /nine /f /n /h
/s /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi
/xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi
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/xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi /xi
] /e0 exch def
/Courier-Bold_e0 undefinefont
/Courier-Bold_e0
/Courier-Bold findfont
dup length dict begin
{ 1 index /FID ne { def } { pop pop } ifelse } forall
/Encoding e0 def
currentdict end
definefont pop
/Courier-Bold_e0 ff 0.800000 scf sf
( !"# $) sw
2 div 2.600000 ex sub 17.555217 m ( !"# $)
gs 1 -1 sc sh gr
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 7.200000 13.450000 0.300000 0.300000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 7.200000 13.450000 0.300000 0.300000 0 360 ellipse cp s
n 6.000000 14.050000 m 8.400000 14.050000 l s
n 7.200000 13.750000 m 7.200000 15.250000 l s
n 7.200000 15.250000 m 6.000000 16.550000 l s
n 7.200000 15.250000 m 8.400000 16.550000 l s
/Courier-Bold_e0 ff 0.800000 scf sf

```

```

(%&') sw
2 div 7.200000 ex sub 17.755217 m (%&')
gs 1 -1 sc sh gr
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 6.952400 3.067467 3.052400 1.017467 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 6.952400 3.067467 3.052400 1.017467 0 360 ellipse cp s
/Courier-Bold_e0 ff 0.800000 scf sf
(*&&+,-) sw
2 div 6.952400 ex sub 3.272684 m (*&&+,-)
gs 1 -1 sc sh gr
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 3.365200 8.200000 2.015200 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 3.365200 8.200000 2.015200 1.000000 0 360 ellipse cp s
/Courier-Bold_e0 ff 0.800000 scf sf
(-,.) sw
2 div 3.365200 ex sub 8.405217 m (-,.)
gs 1 -1 sc sh gr
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 11.671600 8.100000 2.471600 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 11.671600 8.100000 2.471600 1.000000 0 360 ellipse cp s
/Courier-Bold_e0 ff 0.800000 scf sf
(-,..) sw
2 div 11.671600 ex sub 8.305217 m (-,..)
gs 1 -1 sc sh gr
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 10.400000 11.650000 m 10.400000 13.450000 l 16.037600 13.450000 l 16.037600 11.650000 l f
0.000000 0.000000 0.000000 srgb
n 10.400000 11.650000 m 10.400000 13.450000 l 16.037600 13.450000 l 16.037600 11.650000 l cp s
/Helvetica_e0 undefinefont
/Helvetica_e0
/Helvetica findfont
dup length dict begin
{ 1 index /FID ne { def } { pop pop } ifelse } forall
/Encoding e0 def
currentdict end
definefont pop
/Helvetica_e0 ff 0.800000 scf sf

```

(/,\$,0,\$12,\$1) sw
2 div 13.218800 ex sub 12.762903 m (/,\$,0,\$12,\$1)
gs 1 -1 sc sh gr
0.050000 slw
n 10.900000 12.950000 m 15.537600 12.950000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
0 slj
0 slc
0 slj
[] 0 sd
n 0.050000 0.000000 m 16.500000 0.000000 l s
0 slc
0 slj
[] 0 sd
n 0.050000 19.950000 m 16.500000 19.950000 l s
0 slc
0 slj
[] 0 sd
n 0.050000 0.000000 m 0.050000 19.950000 l s
0 slc
0 slj
[] 0 sd
n 16.500000 0.000000 m 16.500000 19.950000 l s
0.100000 slw
0 slc
[] 0 sd
n 3.489200 7.200000 m 6.896800 4.050000 l s
0 slj
n 3.906952 6.473376 m 3.489200 7.200000 l 4.246356 6.840534 l f
0.100000 slw
0 slc
[] 0 sd
n 11.712000 7.100000 m 6.896800 4.050000 l s
0 slj
n 10.902394 6.883118 m 11.712000 7.100000 l 11.169943 6.460724 l f
0.100000 slw
0 slc
[] 0 sd
n 2.600000 12.350000 m 3.489200 9.200000 l s
0 slj
n 2.576738 11.512170 m 2.600000 12.350000 l 3.057933 11.648005 l f
0.100000 slw
0 slc
[] 0 sd
n 13.141200 11.650000 m 11.712000 9.100000 l s


```

0 slj
n 12.531985 11.074364 m 13.141200 11.650000 l 12.968150 10.829906 l f
0.100000 slw
0 slc
[] 0 sd
n 7.200000 12.550000 m 11.712000 9.100000 l s
0 slj
n 7.683658 11.865474 m 7.200000 12.550000 l 7.987363 12.262668 l f
/Courier_e0 undefinefont
/Courier_e0
/Courier findfont
dup length dict begin
{ 1 index /FID ne {def} {pop pop} ifelse } forall
/Encoding e0 def
currentdict end
definefont pop
/Courier_e0 ff 0.800000 scf sf
(34&,+56"#7!,89:;<,-$1+"="#7+"&>) sw
2 div 8.307760 ex sub 20.703100 m (34&,+56"#7!,89:;<,-$1+"="#7+"&>)
gs 1 -1 sc sh gr
(67+?@) sw
2 div 8.307760 ex sub 21.503100 m (67+?@)
gs 1 -1 sc sh gr
showpage

```

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%%EndDocument
@endspecial 173 x(One)41 b(needs)g(to)h(trust)f(one)h(or)g(more)f(CAs)
g(for)h(his)f(secure)g(comm)m(unications.)75 b(In)41
b(that)h(case)h(only)150 3736 y(the)32 b(certif(014cates)i(issued)d(b)m
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Ft(X.509)f FB(certif(014cates)k(is)e(describ)s(ed)e(at)j(section)g
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(ab)s(out)h(the)f(certif(014cate)j(holder,)d(the)h(signer,)g(a)150
4403 y(unique)24 b(serial)j(n)m(um)m(b)s(er,)e(expiration)h(dates)g
(and)f(some)g(other)h(014elds)f([RF)m(C3280)j(\(see)e([Bibliograph)m
(y),)150 4513 y(page)31 b(330\))h(as)f(sho)m(w)n(f(in)g(the)g(table)h(b)
s(elo)m(w.)150 4665 y Fs(version:)96 b FB(The)30 b(014eld)g(that)h
(indicates)g(the)g(v)m(ersion)g(of)f(the)h(certif(014cate.)150
4817 y Fs(serialNumber:)630 4926 y FB(This)f(014eld)g(holds)f(a)i
(unique)f(serial)h(n)m(um)m(b)s(er)e(p)s(er)g(certif(014cate.)150
5078 y Fs(issuer:)144 b FB(Holds)31 b(the)f(issuer's)g(distinguished)g
(name.)150 5230 y Fs(validity:)630 5340 y FB(The)g(activ)-5
b(ation)33 b(and)c(expiration)i(dates.)p eop end

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b(More)31 b(on)f(Certi\014cate)i(Authen)m(tication)1644
b(24)150 299 y Fs(subject):96 b FB(The)30 b(sub)5 b(ject's)30
b(distinguished)g(name)g(of)h(the)f(cert\014cate.)150
461 y Fs(extensions):630 570 y FB(The)g(extensions)h(are)g(\014elds)e
(only)i(presen)m(t)f(in)g(v)m(ersion)h(3)g(cert\014cates.)150
733 y(The)38 b(cert\014cate's)j Fm(subje)-5 b(ct)41
b(or)g(issuer)f(name)47 b FB(is)38 b(not)i(just)e(a)h(single)h(string.)
66 b(It)39 b(is)g(a)g(Distinguished)150 842 y(name)25
b(and)g(in)f(the)i Ft(ASN.1)f FB(notation)h(is)f(a)h(sequence)f(of)h
(sev)m(eral)g(ob)5 b(ject)26 b(IDs)f(with)g(their)g(corresp)s(onding)
150 952 y(v)-5 b(alues.)56 b(Some)36 b(of)f(a)m(v)-5
b(ailable)38 b(OIDs)d(to)h(b)s(e)f(used)g(in)g(an)g Ft(X.509)f
FB(distinguished)h(name)g(are)h(de\014ned)e(in)150 1062
y()p Fs(gnutls/x509.h)p FB(.).150 1198 y(The)d Fm(V)-7
b(ersion)38 b FB(\014eld)31 b(in)f(a)i(cert\014cate)h(has)e(v)-5
b(alues)31 b(either)h(1)f(or)g(3)h(for)f(v)m(ersion)g(3)h
(cert\014cates.)44 b(V)-8 b(ersion)150 1308 y(1)35 b(cert\014cates)i
(do)e(not)g(supp)s(ort)f(the)h(extensions)g(\014eld)g(so)g(it)h(is)f
(not)g(p)s(ossible)g(to)h(distinguish)e(a)h(CA)150 1418
y(from)30 b(a)h(p)s(erson.)e(th)m(us)h(their)g(usage)h(should)f(b)s(e)g
(a)m(v)m(oided.)150 1554 y(The)i Fm(validity)41 b FB(dates)33
b(are)f(there)h(to)g(indicate)g(the)g(date)g(that)f(the)h(sp)s
(eci\014c)f(cert\014cate)i(w)m(as)f(activ)-5 b(ated)150
1664 y(and)30 b(the)g(date)h(the)g(cert\014cate's)h(k)m(ey)g(w)m(ould)
e(b)s(e)g(considered)g(in)m(v)-5 b(alid.)150 1801 y(Cert\014cate)34
b Fm(extensions)42 b FB(are)33 b(there)g(to)h(include)f(information)g
(ab)s(out)g(the)g(cert\014cate's)j(sub)5 b(ject)32 b(that)150
1910 y(did)23 b(not)i(\014t)f(in)g(the)g(t)m(ypical)i(cert\014cate)
(\014elds.)38 b(Those)24 b(ma)m(y)h(b)s(e)e(e-mail)j(addresses.)f
(\015ags)f(that)h(indicate)150 2020 y(whether)32 b(the)h(b)s(elongs)g
(to)h(a)f(CA)g(etc.)49 b(All)33 b(the)h(supp)s(orted)
Ft(X.509)g FB(v)m(ersion)j(3)f(extensions)g(are)h(sho)m(w)n)150
2129 y(in)c(the)h(table)g(b)s(elo)m(w.)150 2292 y Fs(subject)d(key)i
(id)g(\(2.5.29.14\):)630 2402 y FB(An)g(iden)m(ti\014er)h(of)f(the)h(k)
m(ey)g(of)f(the)h(sub)5 b(ject.)150 2563 y Fs(authority)28
b(key)h(id)h(\(2.5.29.35\):)630 2673 y FB(An)g(iden)m(ti\014er)h(of)f
(the)h(authorit)m(y's)g(k)m(ey)g(used)f(to)h(sign)f(the)h
(cert\014cate.)150 2835 y Fs(subject)d(alternative)g(name)h
(\2.5.29.17\):)630 2944 y FB(Alternativ)m(e)k(names)d(to)h(sub)5
b(ject's)30 b(distinguished)g(name.)150 3106 y Fs(key)f(usage)g
(\2.5.29.15\):)630 3216 y FB(Constrain)m(ts)i(the)f(k)m(ey's)h(usage)g
(of)g(the)g(cert\014cate.)150 3377 y Fs(extended)d(key)i(usage)f
(\2.5.29.37\):)630 3487 y FB(Constrain)m(ts)i(the)f(purp)s(ose)f(of)h
(the)h(cert\014cate.)150 3648 y Fs(basic)e(constraints)e
(\2.5.29.19\):)630 3758 y FB(Indicates)d(whether)g(this)g(is)g(a)g(CA)
g(cert\014cate)i(or)e(not,)h(and)f(sp)s(ecify)f(the)h(maxim)m(um)g

(path)630 3868 y(lengths)31 b(of)f(cert\014cate)j(c)m(hains.)150
4029 y Fs(CRL)c(distribution)f(points)g(\(2.5.29.31\)):630
4139 y FB(This)i(extension)h(is)f(set)h(b)m(y)f(the)h(CA,)f(in)g(order)
g(to)h(inform)f(ab)s(out)g(the)h(issued)e(CRLs.)150 4300
y Fs(Proxy)g(Certification)e(Information)g(\(1.3.6.1.5.5.7.1.14\)):630
4410 y FB(Pro)m(xy)35 b(Certi\014cates)h(includes)e(this)g(extension)h
(that)h(con)m(tains)f(the)g(OID)g(of)f(the)h(pro)m(xy)630
4520 y(p)s(olicy)30 b(language)h(used,)f(and)f(can)h(sp)s(ecify)g
(limits)g(on)g(the)g(maxim)m(um)g(lengths)g(of)g(pro)m(xy)630
4629 y(c)m(hains.)107 b(Pro)m(xy)52 b(Certi\014cates)h(are)g(sp)s
(eci\014ed)e(in)h([RF)m(C3820)]j(\(see)e([Bibliograph)m(y],)630
4739 y(page)31 b(330\).)150 4902 y(In)e Ft(Gn)n(uTLS)h
FB(the)g Ft(X.509)f FB(cert\014cate)j(structures)d(are)i(handled)e
(using)g(the)i Fs(gnutls_x509_cert_t)25 b FB(t)m(yp)s(e)150
5011 y(and)32 b(the)g(corresp)s(onding)f(priv)-5 b(ate)32
b(k)m(ey)s)h(with)f(the)g Fs(gnutls_x509_privkey_t)27
b FB(t)m(yp)s(e.)46 b(All)33 b(the)f(a)m(v)-5 b(ail-)150
5121 y(able)31 b(functions)f(for)h Ft(X.509)e FB(cert\014cate)k
(handling)c(ha)m(v)m(e)j(their)f(protot)m(yp)s(es)g(in)f(`)p
Fs(gnutls/x509.h)p FB('.)38 b(An)150 5230 y(example)k(program)e(to)i
(demonstrate)g(the)f Ft(X.509)f FB(parsing)g(capabilities)j(can)e(b)s
(e)f(found)g(at)i(section)150 5340 y([ex:x509-info],)33
b(page)e(93.)p eop end
%%Page: 25 31
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b(More)31 b(on)f(Certi\014cate)i(Authen)m(tication)1644
b(25)150 299 y Fu(5.1.2)63 b(V)-10 b(erifying)41 b Fn(X.509)h
Fu(Certi\014cate)e(P)m(aths)150 446 y FB(V)-8 b(erifying)49
b(cert\014cate)h(paths)d(is)h(imp)s(ortan)m(t)h(in)e
Ft(X.509)g FB(authen)m(tication.)96 b(F)-8 b(or)49 b(this)e(purp)s(ose)
g(the)150 555 y(function)e([gn)m(utls)p 792 555 28 4
v 41 w(x509)p 1016 555 V 41 w(cert)p 1168 555 V 40 w(v)m(erify],)50
b(page)c(233)h(is)e(pro)m(vided.)85 b(The)45 b(output)f(of)i(this)f
(function)g(is)150 665 y(the)57 b(bit)m(wise)h(OR)f(of)g(the)g(elemen)m
(ts)i(of)e(the)g Fs(gnutls_certificate_status_)o(t)51
b FB(en)m(umeration.)150 775 y(A)e(detailed)h(description)e(of)h(these)
g(elemen)m(ts)h(can)f(b)s(e)f(found)g(in)g(\014gure)g(b)s(elo)m(w.)96
b(The)48 b(function)150 884 y([gn)m(utls)p 421 884 V
41 w(cert\014cate)p 849 884 V 42 w(v)m(erify)p 1113
884 V 40 w(p)s(eers2],)29 b(page)g(130)g(is)g(equiv)-5
b(alen)m(t)29 b(to)g(the)g(previous)e(one,)i(and)f(will)h(v)m(erify)150
994 y(the)i(p)s(eer's)e(cert\014cate)k(in)d(a)h(TLS)e(session.)150
1155 y Fs(CERT_INVALID:)630 1264 y FB(The)j(cert\014cate)j(is)d(not)h
(signed)f(b)m(y)h(one)g(of)f(the)h(kno)m(w)n)f(authorities,)j(or)f(the)g
(signature)630 1374 y(is)d(in)m(v)-5 b(alid.)150 1534
y Fs(CERT_REVOKED:)630 1644 y FB(The)30 b(cert\014cate)i(has)e(b)s
(een)g(rev)m(ok)m(ed)i(b)m(y)e(its)h(CA.)150 1805 y Fs
(CERT_SIGNER_NOT_FOUND:)630 1914 y FB(The)f(cert\014cate's)i(issuer)e

(is)g(not)h(kno)m(wn.)40 b(This)29 b(is)h(the)h(case)g(when)e(the)i
(issuer)e(is)i(not)f(in)630 2024 y(the)h(trusted)e(cert\014cates)k
(list.)150 2184 y Fs(GNUTLS_CERT_SIGNER_NOT_C)o(A:)630
2294 y FB(The)d(cert\014cate's)i(signer)e(w)m(as)h(not)f(a)h(CA.)f
(This)f(ma)m(y)i(happ)s(en)e(if)h(this)g(w)m(as)g(a)h(v)m(ersion)g(1)
630 2403 y(cert\014cate,)i(whic)m(h)d(is)g(common)h(with)f(some)h
(CAs,)f(or)h(a)g(v)m(ersion)g(3)f(cert\014cate)j(without)630
2513 y(the)e(basic)f(constrains)h(extension.)150 2673
y Fs(GNUTLS_CERT_INSECURE_ALG)o(ORIT)o(HM:)630 2783 y
FB(The)j(cert\014cate)j(w)m(as)e(signed)g(using)f(an)h(insecure)g
(algorithm)g(suc)m(h)g(as)g(MD2)h(or)f(MD5.)630 2893
y(These)30 b(algorithms)h(ha)m(v)m(e)h(b)s(een)e(brok)m(en)g(and)g
(should)f(not)i(b)s(e)e(trusted.)150 3054 y(There)41
b(is)g(also)h(to)g(p)s(ossibilit)m(y)g(to)g(pass)f(some)h(input)e(to)i
(the)f(v)m(eri\014cation)i(functions)e(in)g(the)g(form)150
3163 y(of)54 b(\015ags.)111 b(F)-8 b(or)55 b([gn)m(utls)p
1048 3163 V 40 w(x509)p 1271 3163 V 42 w(cert)p 1424 3163
V 40 w(v)m(erify),)61 b(page)54 b(233)h(the)f(\015ags)g(are)h(passed)e
(straigh)m(tforw)m(ard,)150 3273 y(but)65 b([gn)m(utls)p
623 3273 V 40 w(cert\014cate)p 1050 3273 V 42 w(v)m(erify)p
1314 3273 V 41 w(p)s(eers2),)74 b(page)66 b(130)h(dep)s(ends)c(on)i
(the)h(\015ags)f(set)h(b)m(y)f(calling)150 3382 y([gn)m(utls)p
421 3382 V 41 w(cert\014cate)p 849 3382 V 42 w(set)p
1002 3382 V 40 w(v)m(erify)p 1264 3382 V 41 w(\015ags),)e(page)57
b(124.)118 b(All)57 b(the)f(a)m(v)-5 b(ailable)58 b(\015ags)f(are)f
(part)g(of)g(the)150 3492 y(en)m(umeration)31 b([gn)m(utls)p
944 3492 V 41 w(cert\014cate)p 1372 3492 V 42 w(v)m(erify)p
1636 3492 V 40 w(\015ags),)g(page)g(25)h(and)d(are)i(explained)g(in)f
(the)g(table)i(b)s(elo)m(w.)150 3653 y Fs(GNUTLS_VERIFY_DISABLE_CA)o
(_SIG)o(N:)630 3763 y FB(If)41 b(set)h(a)g(signer)f(do)s(es)g(not)h(ha)
m(v)m(e)h(to)f(b)s(e)f(a)h(cert\014cate)h(authorit)m(y)-8
b(.)75 b(This)41 b(\015ag)h(should)630 3872 y(normaly)30
b(b)s(e)g(disabled,)g(unless)g(y)m(ou)h(kno)m(w)f(what)g(this)h(means.)
150 4033 y Fs(GNUTLS_VERIFY_ALLOW_X509)o(_V1_)o(CA_C)o(RT:)630
4142 y FB(Allo)m(w)46 b(only)g(trusted)e(CA)h(cert\014cates)i(that)f
(ha)m(v)m(e)g(v)m(ersion)g(1.)85 b(This)45 b(is)g(safer)g(than)630
4252 y(GNUTLS)p 1017 4252 V 40 w(VERIFY)p 1414 4252 V
40 w(ALLO)m(W)p 1797 4252 V 40 w(ANY)p 2041 4252 V 41
w(X509)p 2285 4252 V 42 w(V1)p 2440 4252 V 40 w(CA)p
2614 4252 V 40 w(CR)-8 b(T,)21 b(and)f(should)g(b)s(e)h(used)f(in-)630
4361 y(stead.)55 b(That)34 b(w)m(a)m(y)i(only)f(signers)g(in)f(y)m(our)
h(trusted)f(list)i(will)f(b)s(e)f(allo)m(w)m(ed)j(to)e(ha)m(v)m(e)h
(cer-)630 4471 y(ti\014cates)c(of)e(v)m(ersion)h(1.)150
4632 y Fs(GNUTLS_VERIFY_ALLOW_ANY_)o(X509)o(_V1_)o(CA_)o(CRT:)630
4741 y FB(Allo)m(w)36 b(CA)e(cert\014cates)j(that)e(ha)m(v)m(e)g(v)m
(ersion)h(1)e(\b)s(oth)h(ro)s(ot)g(and)e(in)m(termediate\).)56
b(This)630 4851 y(is)30 b(dangerous)h(since)f(those)h(ha)m(v)m(en't)h
(the)f(basicConstrain)m(ts)g(extension.)42 b(Must)30

b(b)s(e)g(used)630 4960 y(in)g(com)m(bination)i(with)e(GNUTLS)p
1848 4960 V 39 w(VERIFY)p 2244 4960 V 41 w(ALLO)m(W)p
2628 4960 V 40 w(X509)p 2871 4960 V 42 w(V1)p 3026 4960
V 40 w(CA)p 3200 4960 V 40 w(CR)-8 b(T.)150 5121 y Fs
(GNUTLS_VERIFY_DO_NOT_ALL)o(OW_S)o(AME:)630 5230 y FB(If)28
b(a)i(cert\014cate)g(is)f(not)g(signed)g(b)m(y)g(an)m(y)m(one)h
(trusted)e(but)g(exists)i(in)e(the)h(trusted)g(CA)f(list)630
5340 y(do)i(not)h(treat)g(it)g(as)g(trusted.)p eop end
%%Page: 26 32
TeXDict begin 26 31 bop 150 -116 a FB(Chapter)30 b(5:)41
b(More)31 b(on)f(Certi\014cate)i(Authen)m(tication)1644
b(26)150 299 y Fs(GNUTLS_VERIFY_ALLOW_SIGN)o(_RSA)o(_MD2)o(:)630
408 y FB(Allo)m(w)32 b(cert\014cates)g(to)f(b)s(e)f(signed)g(using)g
(the)g(old)h(MD2)h(algorithm.)150 720 y Fs(GNUTLS_VERIFY_ALLOW_SIGN)o
(_RSA)o(_MD5)o(:)630 830 y FB(Allo)m(w)g(cert\014cates)g(to)f(b)s(e)f
(signed)g(using)g(the)g(brok)m(en)h(MD5)g(algorithm.)150
1218 y(Although)42 b(the)f(v)m(eri\014cation)i(of)f(a)f(cert\014cate)j
(path)d(indicates)h(that)g(the)g(cert\014cate)h(is)f(signed)f(b)m(y)
150 1327 y(trusted)25 b(authorit)m(y)-8 b(,)29 b(do)s(es)c(not)h(rev)m
(eal)h(an)m(ything)f(ab)s(out)g(the)g(p)s(eer's)f(iden)m(tit)m(y)-8
b(.)41 b(It)26 b(is)g(required)f(to)i(v)m(erify)150 1437
y(if)36 b(the)g(cert\014cate's)j(o)m(wner)d(is)g(the)g(one)h(y)m(ou)f
(exp)s(ect.)58 b(F)-8 b(or)37 b(more)g(information)f(consult)g([RF)m
(C2818)]150 1547 y(\(see)31 b([Bibliograph)m(y)],h(page)g(330\))g(and)d
(section)j([ex:v)m(erify].)g(page)f(42)g(for)g(an)f(example.)150
1898 y Fu(5.1.3)63 b Fn(PK)m(CS)41 b Fu(#10)g(Certi\014cate)f(Requests)
150 2045 y FB(A)k(cert\014cate)i(request)e(is)f(a)i(structure.)i(whic
m(h)c(con)m(tain)i(information)f(ab)s(out)g(an)g(applican)m(t)h(of)f(a)
150 2155 y(cert\014cate)38 b(service.)59 b(It)36 b(usually)g(con)m
(tains)h(a)f(priv)-5 b(ate)37 b(k)m(ey)-8 b(,)39 b(a)d(distinguished)f
(name)h(and)g(secondary)150 2264 y(data)j(suc)m(h)f(as)g(a)g(c)m
(hallenge)i(passw)m(ord.)63 b Ft(Gn)n(uTLS)39 b FB(supp)s(orts)d(the)i
(requests)g(de\014ned)f(in)g Ft(PK)n(CS)g FB(#10)150
2374 y([RF)m(C2986)]27 b(\(see)d([Bibliograph)m(y)],j(page)e(330\)).)40
b(Other)23 b(cert\014cate)j(request's)e(format)h(suc)m(h)e(as)h
(PKIX's)150 2484 y([RF)m(C4211)]33 b(\(see)e([Bibliograph)m(y)],h(page)
g(330\))g(are)e(not)h(curren)m(tly)f(supp)s(orted.)150
2770 y(In)h Ft(Gn)n(uTLS)h FB(the)g Ft(PK)n(CS)e FB(#10)i(structures)f
(are)i(handled)d(using)i(the)f Fs(gnutls_x509_crq_t)c
FB(t)m(y)p)s(e.)45 b(An)150 2880 y(example)31 b(of)g(a)f(cert\014cate)j
(request)d(generation)i(can)f(b)s(e)e(found)g(at)i(section)h([ex:crq],)
g(page)f(96.)150 3232 y Fu(5.1.4)63 b Fn(PK)m(CS)41 b
Fu(#12)g(Structures)150 3379 y FB(A)36 b Ft(PK)n(CS)e
FB(#12)i(structure)f([PK)m(CS12)]h(\(see)h([Bibliograph)m(y)],h(page)
(330\))i(usually)d(con)m(tains)i(a)f(user's)150 3488
y(priv)-5 b(ate)38 b(k)m(ey)s)g(and)e(cert\014cates.)64
b(It)37 b(is)g(commonly)h(used)f(in)g(bro)m(w)sers)f(to)i(exp)s(ort)f
(and)g(imp)s(ort)g(the)150 3598 y(user's)30 b(iden)m(tities.)150

3885 y(In)k Ft(Gn)n(uTLS)g FB(the)g Ft(PK)n(CS)g FB(#12)h(structures)e
 (are)i(handled)e(using)h(the)h Fs(gnutls_pkcs12_t)30
 b FB(tm)yp)s(e.)53 b(This)150 3994 y(is)29 b(an)g(abstract)g(tm)yp)s
 (e)h(that)f(ma)m(y)g(hold)g(sev)m(eral)h Fs(gnutls_pkcs12_bag_t)24
 b FB(tm)yp)s(es.)40 b(The)29 b(Bag)h(tm)yp)s(es)f(are)150
 4104 y(the)35 b(holders)f(of)h(the)g(actual)h(data,)g(whic)m(h)f(ma)m
 (y)g(b)s(e)f(cert\014cates,)k(priv)-5 b(ate)35 b(k)m(ey)s(g(or)g
 (encrypted)f(data.)150 4213 y(An)c(Bag)i(of)e(tm)yp)s(e)h(encrypted)f
 (should)f(b)s(e)h(decrypted)g(in)g(order)g(for)g(its)h(data)g(to)g(b)s
 (e)f(accessed.)150 4500 y(An)20 b(example)i(of)f(a)g
 Ft(PK)n(CS)e FB(#12)j(structure)e(generation)i(can)f(b)s(e)f(found)g
 (at)h(section)h([ex:pk)m(cs12),j(page)d(97.)150 4961
 y FA(5.2)68 b(The)45 b Fu(Op)s(enPGP)g FA(T)-11 b(rust)45
 b(Mo)t(del)150 5121 y FB(The)38 b Ft(Op)r(enPGP)f FB(k)m(ey)i(authen)m
 (tication)i(relies)e(on)f(a)h(distributed)e(trust)h(mo)s(del,)i(called)
 g(the)e(\w)m(eb)h(of)150 5230 y(trust".)58 b(The)36
 b(\w)m(eb)h(of)f(trust")g(uses)g(a)h(decen)m(tralized)h(system)e(of)h
 (trusted)e(in)m(tro)s(ducers,)j(whic)m(h)e(are)150 5340
 y(the)g(same)g(as)g(a)g(CA.)g Ft(Op)r(enPGP)f FB(allo)m(ws)i(an)m(y)m
 (one)g(to)f(sign)g(an)m(y)m(one's)h(else)g(public)e(k)m(ey)-8
 b(.)58 b(When)36 b(Alice)p eop end
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 b(More)31 b(on)f(Certi\014cate)i(Authen)m(tication)1644
 b(27)150 299 y(signs)29 b(Bob's)g(k)m(ey)-8 b(,)30 b(she)f(is)g(in)m
 (tro)s(ducing)f(Bob's)h(k)m(ey)h(to)f(an)m(y)m(one)h(who)f(trusts)f
 (Alice.)42 b(If)28 b(someone)h(trusts)150 408 y(Alice)j(to)f(in)m(tro)s
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 /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
 /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
 /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
 /space /exclamdown /cent /sterling /currency /yen /brokenbar /section /dieresis /copyright
 /ordfeminine /guillemotleft /logicalnot /hyphen /registered /macron /degree /plusminus /twosuperior /threesuperior
 /acute /mu /paragraph /periodcentered /cedilla /onesuperior /ordmasculine /guillemotright /onequarter /onehalf
 /threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
 /Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
 /Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex
 /Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
 /ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
 /eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
 /uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
 /cp {closepath} bind def
 /c {curveto} bind def
 /f {fill} bind def
 /a {arc} bind def
 /ef {eofill} bind def
 /ex {exch} bind def
 /gr {grestore} bind def
 /gs {gsave} bind def
 /sa {save} bind def
 /rs {restore} bind def
 /l {lineto} bind def
 /m {moveto} bind def
 /rm {rmoveto} bind def
 /n {newpath} bind def
 /s {stroke} bind def
 /sh {show} bind def
 /slc {setlinecap} bind def
 /slj {setlinejoin} bind def
 /slw {setlinewidth} bind def
 /srgb {setrgbcolor} bind def
 /rot {rotate} bind def
 /sc {scale} bind def
 /sd {setdash} bind def
 /ff {findfont} bind def
 /sf {setfont} bind def
 /scf {scalefont} bind def

```

/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
  /endangle exch def
  /startangle exch def
  /yrad exch def
  /xrad exch def
  /y exch def
  /x exch def /savematrix mtrx currentmatrix def
  x y tr xrad yrad sc
  0 0 1 startangle endangle arc
  savematrix setmatrix
  end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def

```



```

/p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
/p2_x p1_x to_x p0_x sub 1 3 div mul add def
/p2_y p1_y to_y p0_y sub 1 3 div mul add def
p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-0.450000 -15.800000 translate
%%EndProlog

```

```

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 3.850000 2.750000 1.750000 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 3.850000 2.750000 1.750000 1.000000 0 360 ellipse cp s
gsave 2.952533 2.950000 translate 0.035278 -0.035278 scale
start_ol
1375 2740 moveto
1062 1408 lineto
1690 1408 lineto
1375 2740 lineto
970 3328 moveto
1782 3328 lineto
2688 0 lineto
2025 0 lineto
1818 896 lineto
930 896 lineto
727 0 lineto
64 0 lineto
970 3328 lineto
end_ol grestore
gsave 3.316600 2.950000 translate 0.035278 -0.035278 scale
start_ol
896 1059 moveto
896 3008 lineto
256 3008 lineto
256 3520 lineto
1536 3520 lineto
1536 1059 lineto
1536 761 1631 636 conicto
1726 512 1953 512 conicto
2496 512 lineto
2496 0 lineto
1764 0 lineto
1299 0 1097 245 conicto

```

896 490 896 1059 conicto
end_of grestore
gsave 3.680667 2.950000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
1792 2496 lineto
1792 512 lineto
2624 512 lineto
2624 0 lineto
320 0 lineto
320 512 lineto
1152 512 lineto
1152 1984 lineto
512 1984 lineto
512 2496 lineto
1152 3776 moveto
1792 3776 lineto
1792 3008 lineto
1152 3008 lineto
1152 3776 lineto
end_of grestore
gsave 4.044733 2.950000 translate 0.035278 -0.035278 scale
start_of
2368 128 moveto
2204 32 2015 -16 conicto
1826 -64 1609 -64 conicto
1033 -64 708 283 conicto
384 631 384 1246 conicto
384 1863 711 2211 conicto
1038 2560 1613 2560 conicto
1813 2560 1998 2513 conicto
2184 2466 2368 2368 conicto
2368 1792 lineto
2224 1916 2051 1982 conicto
1879 2048 1694 2048 conicto
1372 2048 1198 1839 conicto
1024 1631 1024 1246 conicto
1024 861 1198 654 conicto
1372 448 1694 448 conicto
1886 448 2053 511 conicto
2220 575 2368 704 conicto
2368 128 lineto
end_of grestore
gsave 4.408800 2.950000 translate 0.035278 -0.035278 scale
start_of
2432 128 moveto
2205 31 1970 -16 conicto
1735 -64 1474 -64 conicto

850 -64 521 271 conicto
192 607 192 1239 conicto
192 1850 512 2205 conicto
833 2560 1386 2560 conicto
1945 2560 2252 2230 conicto
2560 1900 2560 1301 conicto
2560 1024 lineto
832 1024 lineto
834 734 1007 591 conicto
1180 448 1524 448 conicto
1751 448 1971 509 conicto
2191 570 2432 704 conicto
2432 128 lineto
1920 1536 moveto
1915 1789 1779 1918 conicto
1643 2048 1379 2048 conicto
1141 2048 999 1914 conicto
858 1780 832 1534 conicto
1920 1536 lineto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 2.575000 11.000000 1.625000 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 2.575000 11.000000 1.625000 1.000000 0 360 ellipse cp s
gsave 2.041600 11.200000 translate 0.035278 -0.035278 scale
start_ol
896 1536 moveto
896 512 lineto
1363 512 lineto
1708 512 1846 623 conicto
1984 734 1984 1010 conicto
1984 1290 1840 1413 conicto
1696 1536 1363 1536 conicto
896 1536 lineto
896 2816 moveto
896 2048 lineto
1363 2048 lineto
1630 2048 1743 2136 conicto
1856 2225 1856 2429 conicto
1856 2632 1740 2724 conicto
1625 2816 1363 2816 conicto
896 2816 lineto
256 3328 moveto
1363 3328 lineto
1927 3328 2211 3120 conicto
2496 2913 2496 2501 conicto

2496 2184 2335 2006 conicto
2174 1828 1862 1800 conicto
2241 1762 2432 1541 conicto
2624 1320 2624 924 conicto
2624 437 2327 218 conicto
2031 0 1363 0 conicto
256 0 lineto
256 3328 lineto
end_of grestore
gsave 2.405667 11.200000 translate 0.035278 -0.035278 scale
start_of
1342 2048 moveto
1104 2048 968 1836 conicto
832 1625 832 1249 conicto
832 872 968 660 conicto
1104 448 1342 448 conicto
1584 448 1720 660 conicto
1856 872 1856 1249 conicto
1856 1625 1720 1836 conicto
1584 2048 1342 2048 conicto
192 1248 moveto
192 1853 504 2206 conicto
816 2560 1343 2560 conicto
1872 2560 2184 2206 conicto
2496 1853 2496 1248 conicto
2496 643 2184 289 conicto
1872 -64 1343 -64 conicto
816 -64 504 289 conicto
192 643 192 1248 conicto
end_of grestore
gsave 2.769733 11.200000 translate 0.035278 -0.035278 scale
start_of
1920 1247 moveto
1920 1623 1793 1835 conicto
1666 2048 1442 2048 conicto
1218 2048 1089 1835 conicto
960 1623 960 1247 conicto
960 873 1089 660 conicto
1218 448 1442 448 conicto
1666 448 1793 660 conicto
1920 873 1920 1247 conicto
960 2169 moveto
1083 2365 1246 2462 conicto
1409 2560 1614 2560 conicto
2069 2560 2314 2221 conicto
2560 1882 2560 1248 conicto
2560 623 2318 279 conicto
2076 -64 1638 -64 conicto

1407 -64 1236 40 conicto
1065 145 960 353 conicto
960 0 lineto
320 0 lineto
320 3520 lineto
960 3520 lineto
960 2169 lineto
end_ol grestore
0.100000 slw
0 slc
[] 0 sd
n 2.611503 4.307106 m 2.604400 10.000000 l s
0 slj
n 2.861502 4.307418 m 2.612501 3.507107 l 2.361503 4.306794 l ef
0.100000 slw
0 slc
[] 0 sd
n 3.784081 9.442957 m 3.850000 3.750000 l s
0 slj
n 3.534098 9.440062 m 3.774819 10.242903 l 4.034065 9.445852 l ef
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 8.075000 7.050000 1.625000 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 8.075000 7.050000 1.625000 1.000000 0 360 ellipse cp s
gsave 7.359567 7.250000 translate 0.035278 -0.035278 scale
start_ol
960 2752 moveto
960 576 lineto
1164 576 lineto
1607 576 1795 823 conicto
1984 1071 1984 1667 conicto
1984 2258 1795 2505 conicto
1607 2752 1164 2752 conicto
960 2752 lineto
320 3328 moveto
1013 3328 lineto
1905 3328 2296 2939 conicto
2688 2550 2688 1667 conicto
2688 783 2296 391 conicto
1905 0 1013 0 conicto
320 0 lineto
320 3328 lineto
end_ol grestore
gsave 7.723633 7.250000 translate 0.035278 -0.035278 scale
start_ol
1565 1216 moveto

1156 1216 994 1116 conicto
832 1017 832 776 conicto
832 596 944 490 conicto
1056 384 1248 384 conicto
1537 384 1696 590 conicto
1856 797 1856 1169 conicto
1856 1216 lineto
1565 1216 lineto
2496 1456 moveto
2496 0 lineto
1856 0 lineto
1856 275 lineto
1734 112 1543 24 conicto
1353 -64 1122 -64 conicto
682 -64 437 163 conicto
192 391 192 801 conicto
192 1243 475 1453 conicto
758 1664 1351 1664 conicto
1856 1664 lineto
1856 1779 lineto
1856 1942 1728 2027 conicto
1600 2112 1351 2112 conicto
1119 2112 901 2050 conicto
684 1989 448 1856 conicto
448 2368 lineto
663 2466 883 2513 conicto
1104 2560 1351 2560 conicto
1984 2560 2240 2318 conicto
2496 2077 2496 1456 conicto
end_of grestore
gsave 8.087700 7.250000 translate 0.035278 -0.035278 scale
start_of
2624 2496 moveto
1817 0 lineto
999 0 lineto
192 2496 lineto
865 2496 lineto
1407 549 lineto
1951 2496 lineto
2624 2496 lineto
end_of grestore
gsave 8.451767 7.250000 translate 0.035278 -0.035278 scale
start_of
2432 128 moveto
2205 31 1970 -16 conicto
1735 -64 1474 -64 conicto
850 -64 521 271 conicto
192 607 192 1239 conicto

192 1850 512 2205 conicto
833 2560 1386 2560 conicto
1945 2560 2252 2230 conicto
2560 1900 2560 1301 conicto
2560 1024 lineto
832 1024 lineto
834 734 1007 591 conicto
1180 448 1524 448 conicto
1751 448 1971 509 conicto
2191 570 2432 704 conicto
2432 128 lineto
1920 1536 moveto
1915 1789 1779 1918 conicto
1643 2048 1379 2048 conicto
1141 2048 999 1914 conicto
858 1780 832 1534 conicto
1920 1536 lineto
end_ol grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
0 slj
0 slc
0 slj
[] 0 sd
n 0.500000 0.900000 m 16.050000 0.900000 1 s
0 slc
0 slj
[] 0 sd
n 0.500000 13.550000 m 16.050000 13.550000 1 s
0 slc
0 slj
[] 0 sd
n 0.500000 0.900000 m 0.500000 13.550000 1 s
0 slc
0 slj
[] 0 sd
n 16.050000 0.900000 m 16.050000 13.550000 1 s
gsave 5.122367 14.650000 translate 0.035278 -0.035278 scale
start_ol
1375 2929 moveto
893 1216 lineto
1857 1216 lineto
1375 2929 lineto
1099 3328 moveto
1654 3328 lineto
2688 0 lineto

2215 0 lineto
1966 832 lineto
782 832 lineto
538 0 lineto
64 0 lineto
1099 3328 lineto
end_ol grestore
gsave 5.486433 14.650000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 5.850500 14.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.214567 14.650000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 6.578633 14.650000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave 6.942700 14.650000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto

2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 7.306767 14.650000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 7.670833 14.650000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto

448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 8.034900 14.650000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 8.398967 14.650000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 8.763033 14.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.127100 14.650000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 9.491167 14.650000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto

2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 9.855233 14.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.219300 14.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 10.583367 14.650000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto

832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.947433 14.650000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 4.771000 15.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.135067 15.450000 translate 0.035278 -0.035278 scale
start_ol
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto

2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_ol grestore
gsave 5.499133 15.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 5.863200 15.450000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto

2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave 6.227267 15.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.591333 15.450000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 6.955400 15.450000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto

1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 7.319467 15.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.683533 15.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 8.047600 15.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 8.411667 15.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 8.775733 15.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 9.139800 15.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.503867 15.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.867933 15.450000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto

1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 10.232000 15.450000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 10.596067 15.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto

824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 10.960133 15.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.324200 15.450000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto

2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
0.100000 slw
0 slc
[] 0 sd
n 5.569834 4.156959 m 7.076560 6.342890 l s
0 slj
n 5.775673 4.015078 m 5.115813 3.498275 l 5.363995 4.298841 l ef
0.100000 slw
[] 0 sd
[0.400000] 0 sd
0 slc
n 8.589200 6.050000 m 5.825075 2.998477 l s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 6.434899 3.299320 m 5.712538 2.874239 l 6.064326 3.634992 l s
gsave 7.094600 4.400000 translate 0.035278 -0.035278 scale
start_ol
2240 -384 moveto
2240 -704 lineto
2101 -704 lineto
1574 -704 1395 -541 conicto
1216 -378 1216 109 conicto
1216 616 lineto
1216 955 1094 1085 conicto
972 1216 654 1216 conicto
512 1216 lineto
512 1536 lineto
654 1536 lineto
974 1536 1095 1666 conicto
1216 1797 1216 2139 conicto
1216 2687 lineto
1216 3187 1395 3353 conicto
1574 3520 2101 3520 conicto
2240 3520 lineto
2240 3200 lineto
2089 3200 lineto
1785 3200 1692 3101 conicto

1600 3002 1600 2677 conicto
1600 2111 lineto
1600 1755 1506 1593 conicto
1412 1432 1184 1375 conicto
1414 1315 1507 1159 conicto
1600 1004 1600 661 conicto
1600 118 lineto
1600 -195 1692 -289 conicto
1785 -384 2089 -384 conicto
2240 -384 lineto
end_of grestore
gsave 7.458667 4.400000 translate 0.035278 -0.035278 scale
start_of
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
128 2944 lineto
128 3328 lineto
end_of grestore
gsave 7.822733 4.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 8.186800 4.400000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto

1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 8.550867 4.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 8.914933 4.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 9.279000 4.400000 translate 0.035278 -0.035278 scale
start_of
512 -384 moveto
659 -384 lineto
966 -384 1059 -287 conicto
1152 -191 1152 118 conicto
1152 661 lineto
1152 1004 1247 1159 conicto
1342 1315 1574 1375 conicto
1343 1432 1247 1593 conicto
1152 1755 1152 2111 conicto
1152 2677 lineto
1152 2999 1059 3099 conicto
966 3200 659 3200 conicto
512 3200 lineto
512 3520 lineto
647 3520 lineto
1178 3520 1357 3353 conicto
1536 3187 1536 2687 conicto
1536 2139 lineto
1536 1797 1657 1666 conicto
1778 1536 2096 1536 conicto
2240 1536 lineto
2240 1216 lineto
2096 1216 lineto
1778 1216 1657 1085 conicto
1536 955 1536 616 conicto
1536 109 lineto
1536 -378 1357 -541 conicto

1178 -704 647 -704 conicto
512 -704 lineto
512 -384 lineto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 11.425000 11.000000 2.425000 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 11.425000 11.000000 2.425000 1.000000 0 360 ellipse cp s
gsave 10.163467 11.200000 translate 0.035278 -0.035278 scale
start_ol
2432 128 moveto
2273 32 2098 -16 conicto
1923 -64 1730 -64 conicto
1044 -64 682 380 conicto
320 824 320 1663 conicto
320 2504 682 2948 conicto
1044 3392 1730 3392 conicto
1923 3392 2100 3344 conicto
2277 3296 2432 3200 conicto
2432 2432 lineto
2260 2632 2098 2724 conicto
1937 2816 1765 2816 conicto
1397 2816 1210 2525 conicto
1024 2235 1024 1662 conicto
1024 1093 1210 802 conicto
1397 512 1765 512 conicto
1937 512 2098 604 conicto
2260 696 2432 896 conicto
2432 128 lineto
end_ol grestore
gsave 10.527533 11.200000 translate 0.035278 -0.035278 scale
start_ol
2432 1642 moveto
2432 0 lineto
1792 0 lineto
1792 1540 lineto
1792 1813 1708 1930 conicto
1625 2048 1435 2048 conicto
1242 2048 1133 1889 conicto
1024 1730 1024 1447 conicto
1024 0 lineto
384 0 lineto
384 3520 lineto
1024 3520 lineto
1024 2144 lineto
1096 2342 1269 2451 conicto

1443 2560 1689 2560 conicto
2056 2560 2244 2329 conicto
2432 2099 2432 1642 conicto
end_ol grestore
gsave 10.891600 11.200000 translate 0.035278 -0.035278 scale
start_ol
1565 1216 moveto
1156 1216 994 1116 conicto
832 1017 832 776 conicto
832 596 944 490 conicto
1056 384 1248 384 conicto
1537 384 1696 590 conicto
1856 797 1856 1169 conicto
1856 1216 lineto
1565 1216 lineto
2496 1456 moveto
2496 0 lineto
1856 0 lineto
1856 275 lineto
1734 112 1543 24 conicto
1353 -64 1122 -64 conicto
682 -64 437 163 conicto
192 391 192 801 conicto
192 1243 475 1453 conicto
758 1664 1351 1664 conicto
1856 1664 lineto
1856 1779 lineto
1856 1942 1728 2027 conicto
1600 2112 1351 2112 conicto
1119 2112 901 2050 conicto
684 1989 448 1856 conicto
448 2368 lineto
663 2466 883 2513 conicto
1104 2560 1351 2560 conicto
1984 2560 2240 2318 conicto
2496 2077 2496 1456 conicto
end_ol grestore
gsave 11.255667 11.200000 translate 0.035278 -0.035278 scale
start_ol
2560 1792 moveto
2452 1920 2306 1984 conicto
2161 2048 1986 2048 conicto
1777 2048 1620 1971 conicto
1463 1894 1377 1747 conicto
1323 1657 1301 1529 conicto
1280 1401 1280 1140 conicto
1280 0 lineto
640 0 lineto

640 2496 lineto
1280 2496 lineto
1280 2143 lineto
1377 2342 1578 2451 conicto
1779 2560 2047 2560 conicto
2183 2560 2313 2527 conicto
2443 2495 2560 2432 conicto
2560 1792 lineto
end_of grestore
gsave 11.619733 11.200000 translate 0.035278 -0.035278 scale
start_of
896 1059 moveto
896 3008 lineto
256 3008 lineto
256 3520 lineto
1536 3520 lineto
1536 1059 lineto
1536 761 1631 636 conicto
1726 512 1953 512 conicto
2496 512 lineto
2496 0 lineto
1764 0 lineto
1299 0 1097 245 conicto
896 490 896 1059 conicto
end_of grestore
gsave 11.983800 11.200000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
1792 2496 lineto
1792 512 lineto
2624 512 lineto
2624 0 lineto
320 0 lineto
320 512 lineto
1152 512 lineto
1152 1984 lineto
512 1984 lineto
512 2496 lineto
1152 3776 moveto
1792 3776 lineto
1792 3008 lineto
1152 3008 lineto
1152 3776 lineto
end_of grestore
gsave 12.347867 11.200000 translate 0.035278 -0.035278 scale
start_of
2432 128 moveto
2205 31 1970 -16 conicto

1735 -64 1474 -64 conicto
850 -64 521 271 conicto
192 607 192 1239 conicto
192 1850 512 2205 conicto
833 2560 1386 2560 conicto
1945 2560 2252 2230 conicto
2560 1900 2560 1301 conicto
2560 1024 lineto
832 1024 lineto
834 734 1007 591 conicto
1180 448 1524 448 conicto
1751 448 1971 509 conicto
2191 570 2432 704 conicto
2432 128 lineto
1920 1536 moveto
1915 1789 1779 1918 conicto
1643 2048 1379 2048 conicto
1141 2048 999 1914 conicto
858 1780 832 1534 conicto
1920 1536 lineto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 13.150000 2.950000 1.750000 1.000000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 13.150000 2.950000 1.750000 1.000000 0 360 ellipse cp s
gsave 12.261000 3.150000 translate 0.035278 -0.035278 scale
start_ol
256 3328 moveto
896 3328 lineto
896 2013 lineto
1936 3328 lineto
2687 3328 lineto
1627 2017 lineto
2725 0 lineto
1987 0 lineto
1191 1498 lineto
896 1128 lineto
896 0 lineto
256 0 lineto
256 3328 lineto
end_ol grestore
gsave 12.625067 3.150000 translate 0.035278 -0.035278 scale
start_ol
2432 128 moveto
2205 31 1970 -16 conicto
1735 -64 1474 -64 conicto

850 -64 521 271 conicto
192 607 192 1239 conicto
192 1850 512 2205 conicto
833 2560 1386 2560 conicto
1945 2560 2252 2230 conicto
2560 1900 2560 1301 conicto
2560 1024 lineto
832 1024 lineto
834 734 1007 591 conicto
1180 448 1524 448 conicto
1751 448 1971 509 conicto
2191 570 2432 704 conicto
2432 128 lineto
1920 1536 moveto
1915 1789 1779 1918 conicto
1643 2048 1379 2048 conicto
1141 2048 999 1914 conicto
858 1780 832 1534 conicto
1920 1536 lineto
end_ol grestore
gsave 12.989133 3.150000 translate 0.035278 -0.035278 scale
start_ol
2624 2496 moveto
1817 0 lineto
999 0 lineto
192 2496 lineto
865 2496 lineto
1407 549 lineto
1951 2496 lineto
2624 2496 lineto
end_ol grestore
gsave 13.353200 3.150000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
1792 2496 lineto
1792 512 lineto
2624 512 lineto
2624 0 lineto
320 0 lineto
320 512 lineto
1152 512 lineto
1152 1984 lineto
512 1984 lineto
512 2496 lineto
1152 3776 moveto
1792 3776 lineto
1792 3008 lineto
1152 3008 lineto

1152 3776 lineto
end_of grestore
gsave 13.717267 3.150000 translate 0.035278 -0.035278 scale
start_of
2432 1638 moveto
2432 0 lineto
1792 0 lineto
1792 1537 lineto
1792 1812 1708 1930 conicto
1625 2048 1435 2048 conicto
1245 2048 1134 1888 conicto
1024 1728 1024 1444 conicto
1024 0 lineto
384 0 lineto
384 2496 lineto
1024 2496 lineto
1024 2139 lineto
1096 2339 1269 2449 conicto
1443 2560 1689 2560 conicto
2056 2560 2244 2328 conicto
2432 2097 2432 1638 conicto
end_of grestore
0.100000 slw
0 slc
[] 0 sd
n 9.949856 5.900509 m 13.150000 3.950000 1 s
0 slj
n 9.819743 5.687036 m 9.266743 6.316871 1 10.079969 6.113982 1 ef
0.100000 slw
[] 0 sd
[0.400000] 0 sd
0 slc
n 11.425000 10.000000 m 14.245565 3.960870 1 s
0.100000 slw
[] 0 sd
0 slj
0 slc
n 14.204478 4.639621 m 14.316501 3.808989 1 13.751453 4.428037 1 s
gsave 12.906168 6.828548 translate 0.035278 -0.035278 scale
start_of
2240 -384 moveto
2240 -704 lineto
2101 -704 lineto
1574 -704 1395 -541 conicto
1216 -378 1216 109 conicto
1216 616 lineto
1216 955 1094 1085 conicto
972 1216 654 1216 conicto

512 1216 lineto
512 1536 lineto
654 1536 lineto
974 1536 1095 1666 conicto
1216 1797 1216 2139 conicto
1216 2687 lineto
1216 3187 1395 3353 conicto
1574 3520 2101 3520 conicto
2240 3520 lineto
2240 3200 lineto
2089 3200 lineto
1785 3200 1692 3101 conicto
1600 3002 1600 2677 conicto
1600 2111 lineto
1600 1755 1506 1593 conicto
1412 1432 1184 1375 conicto
1414 1315 1507 1159 conicto
1600 1004 1600 661 conicto
1600 118 lineto
1600 -195 1692 -289 conicto
1785 -384 2089 -384 conicto
2240 -384 lineto
end_of grestore
gsave 13.270235 6.828548 translate 0.035278 -0.035278 scale
start_of
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
128 2944 lineto
128 3328 lineto
end_of grestore
gsave 13.634302 6.828548 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 13.998368 6.828548 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 14.362435 6.828548 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 14.726502 6.828548 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 15.090568 6.828548 translate 0.035278 -0.035278 scale
start_of
512 -384 moveto
659 -384 lineto
966 -384 1059 -287 conicto
1152 -191 1152 118 conicto
1152 661 lineto
1152 1004 1247 1159 conicto
1342 1315 1574 1375 conicto
1343 1432 1247 1593 conicto
1152 1755 1152 2111 conicto
1152 2677 lineto
1152 2999 1059 3099 conicto
966 3200 659 3200 conicto
512 3200 lineto
512 3520 lineto
647 3520 lineto

1178 3520 1357 3353 conicto
1536 3187 1536 2687 conicto
1536 2139 lineto
1536 1797 1657 1666 conicto
1778 1536 2096 1536 conicto
2240 1536 lineto
2240 1216 lineto
2096 1216 lineto
1778 1216 1657 1085 conicto
1536 955 1536 616 conicto
1536 109 lineto
1536 -378 1357 -541 conicto
1178 -704 647 -704 conicto
512 -704 lineto
512 -384 lineto
end_of grestore
0.100000 slw
0 slc
[] 0 sd
n 5.108800 11.000000 m 9.000000 11.000000 l s
0 slj
n 5.108800 10.750000 m 4.308800 11.000000 l 5.108800 11.250000 l ef
0.100000 slw
0 slc
[] 0 sd
n 14.230367 4.492468 m 13.139734 10.292893 l s
0 slj
n 14.476061 4.538665 m 14.378197 3.706246 l 13.984672 4.446271 l ef
showpage

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2954 y(also)31 b(trusts)f(Bob's)h(k)m(ey)g(to)g(b)s(e)f(the)g(real)i
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(eople's)f(k)m(ey)s(h(without)f(b)s(eing)g(sure)f(that)i(they)f(b)s
(elong)g(to)150 3990 y(the)d(actual)g(o)m(wner.)150 4189
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FB(In)30 b Ft(Gn)n(uTLS)g FB(the)h Ft(Op)r(enPGP)e FB(k)m(ey)i
(structures)f([RF)m(C2440)]j(\(see)e([Bibliograph)m(y],h(page)f(330\))
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(gnutls_openpgp_cert_t)31 b FB(t)m(y)p)s(e)36 b(and)g(the)g(corresp)s
(onding)f(priv)-5 b(ate)36 b(k)m(ey)s(h(with)f(the)150
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(ey)g(is)f(in)m(v)-5 b(alid.)59 b(That)36 b(means)h(that)g(the)f(k)m(m
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(CERT_SIGNER_NOT_FOUND:)630 1756 y FB(The)g(k)m(ey)h(w)m(as)g(not)f
(signed)h(b)m(y)f(a)h(kno)m(wn)f(signer.)150 1912 y Fs
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b(to)h(calculate)i(an)d Fv(x)1441 4117 y Fk(0)1495 4150
y FB(suc)m(h)g(that)h Fv(y)d FB(=)d Fv(H)7 b FB(\()p
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(uTLS)g(functions)g(to)h(v)m(erify)g(the)f(cert)\014cate)j(c)m(hain,)g
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(yw)m(a)m(y)-8 b(,)150 1960 y(assuming)33 b(an)h(attach)m(k)m(er)j(did)c
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150 3509 y(If)25 b(y)m(ou)h(are)g(using)f([gn)m(utls)p
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150 3809 y(This)g(metho)s(d)h(is)g(used)f(b)m(y)h(almost)h(all)g(mo)s
(dern)e(proto)s(cols)i(and)e(there)h(is)g(ev)m(en)h(the)f([RF)m(C2817])
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(u)TLS)e(in)h(Applications)1552
b(45)1582 299 y Fs(gnutls_x509_crl_t)43 b(*)k(crl_list,)1582
408 y(int)g(crl_list_size\;);150 737 y(/*)g(This)g(function)e(will)i
(try)g(to)g(verify)f(the)h(peer's)f(certificat)e(f(chain,)h(and)198
847 y(/*)h(also)g(check)f(if)h(the)g(hostname)f(matches,)f(and)i(the)g
(activation,)e(expiration)g(dates.)198 956 y(/*)150 1066
y(void)150 1176 y(verify_certificate_chain)c((gnutls_session_t)i
(session,)1391 1285 y(const)j(char)h(*hostname,)1391
1395 y(const)f(gnutls_datum_t)e(*)k(cert_chain,)1391
1504 y(int)f(cert_chain_length\))150 1614 y({)245 1724
y(int)g(i;)245 1833 y(gnutls_x509_crt_t)d(*cert;)245
2052 y(cert)j(=)h(malloc)e((sizeof)f(*cert))h(*)i
(cert_chain_length\;);245 2271 y(/*)g(Import)e(all)h(the)g
(certificates)d(in)j(the)g(chain)f(to)293 2381 y(*)i(native)e
(certificat)e(format.)293 2491 y(/*)245 2600 y(for)j((i)h(=)f(0);)g(i)
h(<)f(cert_chain_length;)c(i++))341 2710 y({)436 2819
y(gnutls_x509_crt_init)g((cert[i]);)436 2929 y
(gnutls_x509_crt_import)f((cert[i]),j(&cert_chain[i]),f
(GNUTLS_X509_FMT_DER));)341 3039 y({)245 3258 y(/*)k(If)f(the)g(last)f
(certificat)e(f(in)i(the)g(chain)g(is)g(self)f(signed)g(ignore)h(it.)293
3367 y(/*)h(That)e(is)h(because)f(we)h(want)g(to)g(check)g(against)e
(our)i(trusted)f(certificat)e)293 3477 y(/*)i(list.)293
3587 y(/*)245 3696 y(if)g((gnutls_x509_crt_check_)o(issu)o(er)41
b((cert[cert_chain_length]h(-)47 b(1,))1868 3806 y
(cert[cert_chain_length]42 b(-)47 b(1)))g(>)h(0)436
3915 y(&&)g(cert_chain_length)43 b(>)k(0))341 4025 y({)436
4134 y(cert_chain_length--;)341 4244 y({)245 4463 y(/*)h(Now)f(verify)f
(the)h(certificates)d(against)i(their)g(issuers)293 4573
y(/*)i(in)f(the)g(chain.)293 4682 y(/*)245 4792 y(for)g((i)h(=)f(1);)g
(i)h(<)f(cert_chain_length;)c(i++))341 4902 y({)436
5011 y(verify_cert2)i((cert[i]h(-)h(1,))g(cert[i]),f(crl_list,)f
(crl_list_size\;);)341 5121 y({)245 5340 y(/*)j(Here)e(we)h(must)g
(verify)f(the)h(last)g(certificat)e)d(in)k(the)f(chain)f(against)p

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552

b(46)293 299 y Fs(*)48 b(our)f(trusted)e(CA)j(list.)293

408 y(*)245 518 y(verify_last_cert)c(\(cert[cert_chain_length)d(-)48

b(1),)1105 628 y(ca_list,)d(ca_list_size,)f(crl_list,)i

(crl_list_size);)245 847 y(*)i(Check)e(if)h(the)g(name)g(in)g(the)g

(first)f(certificat)e(f(matches)h(our)h(destination!))293

956 y(*)245 1066 y(if)h(\(!gnutls_x509_cert_check)o(_hos)o(tna)o(me)42

b(\(cert[0],j(hostname)\))341 1176 y({)436 1285 y(printf)h(\("The)h

(certificate's)d(owner)i(does)h(not)g(match)f(hostname)g("\045s"\n",)

818 1395 y(hostname);)341 1504 y({)245 1724 y(for)h(\(i)h(=)f(0);)g(i)h

(<)f(cert_chain_length;)c(i++))341 1833 y(gnutls_x509_cert_deinit)f

(\((cert[i]);)245 2052 y(return;)150 2162 y({)150 2491

y(*)47 b(Verifies)f(a)h(certificat)e(against)h(an)h(other)f

(certificat)e198 2600 y(*)h(which)g(is)g(supposed)e(to)i(be)h(it's)e

(issuer.)94 b(Also)46 b(checks)h(the)198 2710 y(*)g(crl_list)f(if)h

(the)g(certificat)e(is)i(revoked.)198 2819 y(*)150

2929 y(static)f(void)150 3039 y(verify_cert2)e(\(gnutls_x509_cert_t)f

(crt,)k(gnutls_x509_cert_t)c(issuer,)818 3148 y(gnutls_x509_crl_t)g(*)48

b(crl_list,)d(int)i(crl_list_size\))150 3258 y({)245

3367 y(unsigned)f(int)h(output;)245 3477 y(int)g(ret;)245

3587 y(time_t)g(now)f(=)i(time)f(\(0);)245 3696 y(size_t)g(name_size;)

245 3806 y(char)g(name[64];)245 4025 y(*)h(Print)e(information)f

(about)h(the)h(certificates)d(to)293 4134 y(*)k(be)f(checked.)293

4244 y(*)245 4354 y(name_size)f(=)h(sizeof)f(\(name);)245

4463 y(gnutls_x509_cert_get_dn)c(\(crt,)47 b(name,)f(&name_size);)245

4682 y(fprintf)g(\(stderr,)g("\nCertificate:)91 b(\045s\n"),46

b(name);)245 4902 y(name_size)g(=)h(sizeof)f(\(name);)245

5011 y(gnutls_x509_cert_get_issuer)o(_dn)41 b(\(crt,)47

b(name,)f(&name_size);)245 5230 y(fprintf)g(\(stderr,)g("Issued)g(by:)

94 b(\045s\n"),46 b(name\);)p eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552

b(47)245 299 y Fs(*)48 b(Get)f(the)f(DN)i(of)f(the)g(issuer)f(cert.)

293 408 y(*)245 518 y(name_size)g(=)h(sizeof)f(\(name);)245

628 y(gnutls_x509_cert_get_dn)c(\(issuer,)k(name,)g(&name_size);)245

847 y(fprintf)g(\(stderr,)g("Checking)f(against:)93 b(\045s\n"),46

b(name);)245 1066 y(*)i(Do)f(the)g(actual)f(verification.)293

1176 y(*)245 1285 y(gnutls_x509_cert_verify)c(\(crt,)47

b(&issuer,)e(1,)i(0,)g(&output);)245 1504 y(if)h(\(output)d(&j

(GNUTLS_CERT_INVALID\))341 1614 y({)436 1724 y(fprintf)e(\(stderr,)g

("Not)g(trusted");)436 1943 y(if)i(\(output)d(&j

(GNUTLS_CERT_SIGNER_NOT_F)o(O)N)o(D))532 2052 y(fprintf)e(\(stderr,)f

(":)"95 b(no)47 b(issuer)f(was)h(found");)436 2162 y(if)h(\(output)d(&

j(GNUTLS_CERT_SIGNER_NOT_C)o(A))532 2271 y(fprintf)e(\(stderr,)f(":"95

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b(issuer)46 b(is)h(not)g(a)h(CA");436 2491 y(fprintf)e(\(stderr,)g
("\n"););341 2600 y(})245 2710 y(else)341 2819 y(fprintf)g(\(stderr,)f
("Trusted\n"););245 3148 y(*/)j(Now)f(check)f(the)h(expiration)e
(dates.)293 3258 y(*/)245 3367 y(if)j(\(gnutls_x509_crt_get_ac)o(tiva)o
(tio)o(n_ti)o(me)42 b(\(crt))k(>)h(now))341 3477 y(fprintf)f
(\(stderr,)f("Not)i(yet)g(activated\n"););245 3696 y(if)h
(\(gnutls_x509_crt_get_ex)o(pira)o(tio)o(n_ti)o(me)42
b(\(crt))k(<)h(now))341 3806 y(fprintf)f(\(stderr,)f("Expired\n"););
245 4025 y(*/)j(Check)e(if)h(the)g(certificate)e(is)i(revoked.)293
4134 y(*/)245 4244 y(ret)g(=)h(gnutls_x509_crt_check_re)o(voc)o(atio)o
(n)42 b(\(crt,)k(crl_list,)f(crl_list_size););245 4354
y(if)j(\(ret)e(==)h(1))341 4463 y(})1288 b(*/)47 b(revoked)f(*/)436
4573 y(fprintf)g(\(stderr,)g("Revoked\n"););341 4682
y(})150 4792 y(})150 5121 y(*/)h(Verifies)f(a)h(certificate)e(against)h
(our)h(trusted)e(CA)j(list.)198 5230 y(*/)f(Also)g(checks)f(the)h
(crl_list)e(if)j(the)e(certificate)f(is)i(revoked.)198
5340 y(*/)p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(48)150 299 y Fs(static)46 b(void)150 408 y(verify_last_cert)d
(\(gnutls_x509_crt_t)g(crt,)1009 518 y(gnutls_x509_crt_t)g(*)48
b(ca_list,)d(int)i(ca_list_size,)1009 628 y(gnutls_x509_crl_t)c(*)48
b(crl_list,)d(int)i(crl_list_size))150 737 y(})245 847
y(unsigned)f(int)h(output);245 956 y(int)g(ret);245 1066
y(time_t)g(now)f(=)i(time)f(\(0););245 1176 y(size_t)g(name_size);245
1285 y(char)g(name[64]);245 1504 y(*/)h(Print)e(information)f(about)h
(the)h(certificates)d(to)293 1614 y(*/)k(be)f(checked.)293
1724 y(*/)245 1833 y(name_size)f(=)h(sizeof)f(\(name););245
1943 y(gnutls_x509_crt_get_dn)c(\(crt,)47 b(name,)f(&name_size););245
2162 y(fprintf)g(\(stderr,)g("\nCertificate:);91 b(\(045s\n",)46
b(name););245 2381 y(name_size)g(=)h(sizeof)f(\(name););245
2491 y(gnutls_x509_crt_get_issuer)o(_dn)41 b(\(crt,)47
b(name,)f(&name_size););245 2710 y(fprintf)g(\(stderr,)g("Issued)g(by:);
94 b(\(045s\n",)46 b(name););245 2929 y(*/)i(Do)f(the)g(actual)f
(verification.)293 3039 y(*/)245 3148 y(gnutls_x509_crt_verify)c
(\(crt,)47 b(ca_list,)e(ca_list_size,)1391 3258 y
(GNUTLS_VERIFY_ALLOW_X509)o(_V1_)o(CA_)o(CRT,)c(&output););245
3477 y(if)48 b(\(output)d(&)j(GNUTLS_CERT_INVALID))341
3587 y(})436 3696 y(fprintf)e(\(stderr,)g("Not)g(trusted"););436
3915 y(if)i(\(output)d(&)j(GNUTLS_CERT_SIGNER_NOT_C)o(A))532
4025 y(fprintf)e(\(stderr,)f("):95 b(Issuer)46 b(is)h(not)g(a)h
(CA\n"););436 4134 y(else)532 4244 y(fprintf)e(\(stderr,)f("\n"););
341 4354 y(})245 4463 y(else)341 4573 y(fprintf)h(\(stderr,)f
("Trusted\n"););245 4902 y(*/)j(Now)f(check)f(the)h(expiration)e
(dates.)293 5011 y(*/)245 5121 y(if)j(\(gnutls_x509_crt_get_ac)o(tiva)o
(tio)o(n_ti)o(me)42 b(\(crt))k(>)h(now))341 5230 y(fprintf)f
(\(stderr,)f("Not)i(yet)g(activated\n"););p eop end

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b(49)245 299 y Fs(if)48 b(\(gnutls_x509_cert_get_ex)o(pira)o(tio)o(n_ti)
o(me)42 b(\(crt))k(<)h(now))341 408 y(fprintf)\(stderr),f
("Expired\n");245 628 y(/*)j(Check)e(if)h(the)g(certificate)e(is)i
(revoked.)293 737 y(/*)245 847 y(ret)g(=)h(gnutls_x509_cert_check_re)o
(voc)o(atio)o(n)42 b(\(crt,)k(crl_list,)f(crl_list_size);)245
956 y(if)j(\(ret)e(==)h(1))341 1066 y({)1288 b(/*)47
b(revoked)f(/*)436 1176 y(fprintf)g(\(stderr,)g("Revoked\n");)341
1285 y({)150 1395 y({)150 1628 y Fu(7.3.5)63 b(Using)42
b(a)e(Callbac)m(k)g(to)h(Select)f(the)h(Certi\014cate)e(to)i(Use)150
1775 y FB(There)29 b(are)h(cases)h(where)e(a)h(clien)m(t)i(holds)d(sev)
m(eral)i(cert\014cate)h(and)d(k)m(ey)h(pairs,)g(and)f(ma)m(y)i(not)f
(w)m(an)m(t)g(to)150 1884 y(load)j(all)h(of)e(them)h(in)f(the)h(creden)
m(tials)h(structure.)47 b(The)32 b(follo)m(wing)i(example)f
(demonstrates)g(the)g(use)150 1994 y(of)e(the)f(cert\014cate)j
(selection)f(callbac)m(k.)150 2162 y Fs(/*)47 b(This)g(example)f(code)g
(is)h(placed)g(in)g(the)g(public)f(domain.)93 b(/*)150
2381 y(#ifdef)46 b(HAVE_CONFIG_H)150 2491 y(#include)f(<config.h>)
150 2600 y(#endif)150 2819 y(#include)g(<stdio.h>)150
2929 y(#include)g(<stdlib.h>)150 3039 y(#include)g(<string.h>)150
3148 y(#include)g(<sys/types.h>)150 3258 y(#include)g(<sys/socket.h>)
150 3367 y(#include)g(<arpa/inet.h>)150 3477 y(#include)g(<unistd.h>)
150 3587 y(#include)g(<gnutls/gnutls.h>)150 3696 y(#include)g
(<gnutls/x509.h>)150 3806 y(#include)g(<sys/types.h>)150
3915 y(#include)g(<sys/stat.h>)150 4025 y(#include)g(<fcntl.h>)150
4244 y(/*)h(A)h(TLS)f(client)f(that)g(loads)h(the)g(certificate)d(and)j
(key.)198 4354 y(/*)150 4573 y(#define)f(MAX_BUF)g(1024)150
4682 y(#define)g(MSG)h("GET)f(/)i(HTTP/1.0)\r\n\r\n")150
4902 y(#define)e(CERT_FILE)f("cert.pem")150 5011 y(#define)h(KEY_FILE)f
("key.pem")150 5121 y(#define)h(CAFILE)g("ca.pem")150
5340 y(extern)g(int)h(tcp_connect)e(\(void\);)p eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(50)150 299 y Fs(extern)46 b(void)h(tcp_close)e(\(int)i(sd\);)150
518 y(static)f(int)h(cert_callback)d(\(gnutls_session_t)f(session,)1391
628 y(const)j(gnutls_datum_t)e(*)k(req_ca_rdn,)c(int)j(nreqs,)1391
737 y(const)f(gnutls_pk_algorithm_t)c(*)48 b(sign_algos,)1391
847 y(int)f(sign_algos_length,)c(gnutls_retr_st)h(*)j(st\);)150
1066 y(gnutls_x509_cert_t)c(crt;)150 1176 y(gnutls_x509_privkey_t)f
(key;)150 1395 y(/*)47 b(Helper)f(functions)g(to)h(load)f(a)i
(certificate)d(and)h(key)198 1504 y(/*)h(files)g(into)f(memory.)198
1614 y(/*)150 1724 y(static)g(gnutls_datum_t)150 1833
y(load_file)f(\(const)h(char)h(*file))150 1943 y({)245
2052 y(FILE)g(*f;)245 2162 y(gnutls_datum_t)d(loaded_file)h(=)j({)f
(NULL,)f(0)i({;)245 2271 y(long)f(filelen;)245 2381 y(void)g(*ptr;)245

2600 y(if)h(!\(\f)e(=)i(fopen)e(\(file,)g("r"))))436
2710 y(\|)i(fseek)e(\(f,)h(0,)g(SEEK_END))e(!=)i(0)436
2819 y(\|)h(\(filelen)d(=)j(ftell)e(\(f))h(<))g(0)436
2929 y(\|)h(fseek)e(\(f,)h(0,)g(SEEK_SET))e(!=)i(0)436
3039 y(\|)h(!\(\ptr)e(=)h(malloc)f(\(size_t))g(filelen))436
3148 y(\|)i(fread)e(\(\ptr,)g(1,)h(\(size_t))f(filelen,)g(f))h(<))
\(size_t))f(filelen))341 3258 y({)436 3367 y(return)g(loaded_file;)436
341 3477 y({)245 3696 y(loaded_file.data)e(=)j(ptr;)245
3806 y(loaded_file.size)d(=)j(\(unsigned)f(int))g(filelen;)245
3915 y(return)h(loaded_file;)150 4025 y({)150 4244 y(static)f(void)150
4354 y(unload_file)f(\(gnutls_datum_t)e(data))150 4463
y({)245 4573 y(free)k(\(data.data);)150 4682 y({)150
4902 y(/*)g(Load)g(the)g(certificate)d(and)j(the)g(private)f(key.)198
5011 y(*/)150 5121 y(static)g(void)150 5230 y(load_keys)f(\(void))150
5340 y({)p eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(51)245 299 y Fs(int)47 b(ret;)245 408 y(gnutls_datum_t)d(data;)245
628 y(data)j(=)h(load_file)d(\(CERT_FILE));)245 737 y(if)j(\(data.data
d(==)i(NULL))341 847 y({)436 956 y(fprintf)f(\(stderr,)g("***)g(Error)
h(loading)f(cert)g(file.\n");)436 1066 y(exit)h(\(1);)341
1176 y({)245 1285 y(gnutls_x509 crt_init)c(\(&crt);)245
1504 y(ret)k(=)h(gnutls_x509 crt_import)42 b(\(crt,)k(&data,)g
(GNUTLS_X509_FMT_PEM);)245 1614 y(if)i(\(ret)e(<)i(0))341
1724 y({)436 1833 y(fprintf)e(\(stderr,)g("***)g(Error)h(loading)f(key)
g(file:)95 b(\045s\n"),)866 1943 y(gnutls_strerror)44
b(\(ret));)436 2052 y(exit)j(\(1);)341 2162 y({)245
2381 y(unload_file)e(\(data);)245 2600 y(data)i(=)h(load_file)d
\(KEY_FILE);)245 2710 y(if)j(\(data.data)d(==)i(NULL))341
2819 y({)436 2929 y(fprintf)f(\(stderr,)g("***)g(Error)h(loading)f(key)
g(file.\n");)436 3039 y(exit)h(\(1);)341 3148 y({)245
3367 y(gnutls_x509_privkey_init)42 b(\(&key);)245 3587
y(ret)47 b(=)h(gnutls_x509_privkey_imp)o(rt)41 b(\(key,)47
b(&data,)f(GNUTLS_X509_FMT_PEM);)245 3696 y(if)i(\(ret)e(<)i(0))341
3806 y({)436 3915 y(fprintf)e(\(stderr,)g("***)g(Error)h(loading)f(key)
g(file:)95 b(\045s\n"),)866 4025 y(gnutls_strerror)44
b(\(ret));)436 4134 y(exit)j(\(1);)341 4244 y({)245
4463 y(unload_file)e(\(data);)150 4682 y({)150 4902
y(int)150 5011 y(main)i(\(void))150 5121 y({)245 5230
y(int)g(ret,)g(sd,)g(ii;)245 5340 y(gnutls_session_t)d(session;)p
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(52)245 299 y Fs(gnutls_priority_t)44 b(priorities_cache;)245
408 y(char)j(buffer[MAX_BUF)d(+)j(1);)245 518 y
(gnutls_certificate_credent)o(ials)o_t)41 b(xcred;)245

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628 y(/*)48 b(Allow)e(connections)f(to)i(servers)f(that)g(have)h
(OpenPGP)f(keys)g(as)i(well.)293 737 y(/*)245 956 y(gnutls_global_init)
43 b(\());245 1176 y(load_keys)j(\());245 1395 y(/*)i(X509)e(stuff)h
(/*)245 1504 y(gnutls_certificate_allocat)o(e_cr)o(ede)o(ntia)o(ls)42
b(\(&xcred\));245 1724 y(/*)48 b(priorities)d(/*)245
1833 y(gnutls_priority_init)e(\(&priorities_cache,)f("NORMAL"),k
(NULL\));245 2162 y(/*)i(sets)e(the)h(trusted)f(cas)h(file)293
2271 y(/*)245 2381 y(gnutls_certificate_set_x50)o(9_tr)o(ust)o(_fil)o
(e)42 b(\(xcred,)k(CAFILE,)f(GNUTLS_X509_FMT_PEM\));245
2600 y(gnutls_certificate_client_)o(set_)o(ret)o(riev)o(e_fu)o(nct)o
(ion)c(\(xcred,)46 b(cert_callback\));245 2819 y(/*)i(Initialize)d(TLS)
i(session)293 2929 y(/*)245 3039 y(gnutls_init)e(\(&session,)g
(GNUTLS_CLIENT\));245 3258 y(/*)j(Use)f(default)e(priorities)g(/*)245
3367 y(gnutls_priority_set)e(\(session,)i(priorities_cache\));245
3587 y(/*)j(put)f(the)f(x509)h(credentials)e(to)i(the)g(current)f
(session)293 3696 y(/*)245 3806 y(gnutls_credentials_set)c(\(session,)j
(GNUTLS_CRD_CERTIFICATE,)d(xcred\));245 4025 y(/*)48
b(connect)d(to)j(the)f(peer)293 4134 y(/*)245 4244 y(sd)h(=)f
(tcp_connect)e(\());245 4463 y(gnutls_transport_set_ptr)d(\(session,)j
(\(gnutls_transport_ptr_t\))c(sd\));245 4682 y(/*)48
b(Perform)d(the)i(TLS)g(handshake)293 4792 y(/*)245 4902
y(ret)g(=)h(gnutls_handshake)43 b(\(session\));245 5121
y(if)48 b(\(ret)e(<)i(0))341 5230 y({)436 5340 y(fprintf)e(\(stderr,)g
("***)g(Handshake)g(failed\n");)p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(53)436 299 y Fs(gnutls_perror)45 b(\(ret\));436 408
y(goto)i(end);341 518 y{)245 628 y(else)341 737 y{)436
847 y(sprintf)f(\("-)h(Handshake)f(was)h(completed\n");)341
956 y{)245 1176 y(gnutls_record_send)c(\(session,)j(MSG,)g(strlen)g
(\(MSG\));)245 1395 y(ret)h(=)h(gnutls_record_recv)43
b(\(session,)i(buffer,)h(MAX_BUF\));245 1504 y(if)i(\(ret)e(==)h(0))
341 1614 y{)436 1724 y(sprintf)f(\("-)h(Peer)g(has)g(closed)f(the)h
(TLS)g(connection\n");)436 1833 y(goto)g(end);341 1943
y{)245 2052 y(else)g(if)g(\(ret)g(<)g(0))341 2162 y{)436
2271 y(sprintf)f(\(stderr,)g("***)g(Error:)94 b(\045s\n"),46
b(gnutls_strerror)e(\(ret\));)436 2381 y(goto)j(end);341
2491 y{)245 2710 y(sprintf)g(\("-)f(Received)g(\045d)h(bytes:)94
b(",)47 b(ret\));245 2819 y(for)g(\(ii)g(=)h(0;)f(ii)g(<)h(ret;)e
(ii++)341 2929 y{)436 3039 y(fputc)h(\(buffer[ii],)d(stdout\));341
3148 y{)245 3258 y(fputs)j(\("\n",)f(stdout\));245
3477 y(gnutls_bye)f(\(session,)h(GNUTLS_SHUT_RDWR\));150
3696 y(end:)245 3915 y(tcp_close)g(\(sd\));245 4134 y(gnutls_deinit)f
(\(session\));245 4354 y(gnutls_certificate_free_cr)o(eden)o(tia)o(ls)d
(\(xcred\));245 4463 y(gnutls_priority_deinit)g(\(priorities_cache\);)
245 4682 y(gnutls_global_deinit)h(\());245 4902 y(return)k(0;)150
5011 y{)p eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(54)150 299 y Fs(/*)47 b(This)g(callback)e(should)h(be)i(associated)d
(with)h(a)i(session)e(by)h(calling)198 408 y(*)g
(gnutls_certificate_client)o(_set)o(_re)o(trie)o(ve_f)o(unc)o(tion)o
(\()42 b(session,)j(cert_callback\,)198 518 y(*)i(before)f(a)i
(handshake.)198 628 y(*)/150 847 y(static)e(int)150 956
y(cert_callback)e(\(gnutls_session_t)f(session,)866 1066
y(const)j(gnutls_datum_t)e(*)k(req_ca_rdn,)c(int)j(nreqs,)866
1176 y(const)f(gnutls_pk_algorithm_t)c(*)48 b(sign_algos,)866
1285 y(int)f(sign_algos_length,)c(gnutls_retr_st)h(*)j(st))150
1395 y({)245 1504 y(char)g(issuer_dn[256]);245 1614 y(int)g(i,)h(ret;)
245 1724 y(size_t)f(len;);245 1833 y(gnutls_certificate_type_t)41
b(type;);245 2052 y(/*)48 b(Print)e(the)h(server's)e(trusted)h(CAs)293
2162 y(*)/245 2271 y(if)i(\(nreqs)e(>)h(0))341 2381
y(sprintf)f(\("-)h(Server's)e(trusted)h(authorities:\n"););245
2491 y(else)341 2600 y(sprintf)f(\("-)h(Server)f(did)h(not)g(send)f(us)i
(any)f(trusted)e(authorities)g(names.\n"););245 2819
y(/*)j(print)e(the)h(names)f(\(if)h(any))g(*)/245 2929
y(for)g(\(i)h(=)f(0;)g(i)h(<)f(nreqs;)f(i++))341 3039
y({)436 3148 y(len)h(=)h(sizeof)e(\(issuer_dn););436
3258 y(ret)h(=)h(gnutls_x509_rdn_get)42 b(\(&req_ca_rdn[i],i
(issuer_dn,)h(&len););436 3367 y(if)j(\(ret)e(>=)h(0))532
3477 y({)627 3587 y(sprintf)f(\(")143 b([045d];)94 b(",)47
b(i););627 3696 y(print)f(\("\045s\n",)g(issuer_dn););532
3806 y({)341 3915 y({)245 4134 y(/*)i(Select)e(a)h(certificate)e(and)i
(return)f(it.)293 4244 y(*)i(The)f(certificate)d(must)j(be)g(of)g(any)g
(of)g(the)g("sign)g(algorithms")293 4354 y(*)h(supported)d(by)i(the)g
(server.)293 4463 y(*)/245 4682 y(type)g(=)h(gnutls_certificate_type)o
(_ge)o(t)42 b(\(session););245 4792 y(if)48 b(\(type)e(==)
(GNUTLS_CRT_X509))341 4902 y({)436 5011 y(st->type)f(=)h(type;);436
5121 y(st->ncerts)e(=)j(1;);436 5340 y(st->cert.x509)d(=)i(&cert;);p
eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(55)436 299 y Fs(st->key.x509)45 b(=)i(key;);436 518
y(st->deinit_all)d(=)k(0;);341 628 y({)245 737 y(else)341
847 y({)436 956 y(return)e(-1;);341 1066 y({)245 1285
y(return)h(0;);150 1504 y({)150 1737 y Fu(7.3.6)63 b(Clien)m(t)40
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FB(This)27 b(is)h(a)h(mo)s(di\014cation)f(of)g(the)h(simple)f(clien)m
(t)h(example.)41 b(Here)28 b(w)m(e)h(demonstrate)g(the)f(use)g(of)g
(session)150 1994 y(resumption.)44 b(The)31 b(clien)m(t)i(tries)f(to)g
(connect)h(once)f(using)f Ft(TLS)p FB(,)h(close)h(the)f(connection)h
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(using)e(the)g(previously)h(negotiated)h(data.)150 2271

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y Fs(/*)47 b(This)g(example)f(code)g(is)h(placed)g(in)g(the)g(public)f
(domain.)93 b(/*)150 2491 y(#ifdef)46 b(HAVE_CONFIG_H)150
2600 y(#)h(include)f(<config.h>)150 2710 y(#endif)150
2929 y(#include)g(<string.h>)150 3039 y(#include)g(<stdio.h>)150
3148 y(#include)g(<stdlib.h>)150 3258 y(#include)g(<gnutls/gnutls.h>)
150 3477 y(/*)h(Those)g(functions)e(are)i(defined)f(in)h(other)f
(examples.)198 3587 y(/*)150 3696 y(extern)g(void)h(check_alert)d
(\(gnutls_session_t)g(session,)h(int)i(ret);)150 3806
y(extern)f(int)h(tcp_connect)e(\(void);)150 3915 y(extern)h(void)h
(tcp_close)e(\(int)i(sd);)150 4134 y(#define)f(MAX_BUF)g(1024)150
4244 y(#define)g(CAFILE)g("ca.pem")150 4354 y(#define)g(MSG)h("GET)f(/)
i(HTTP/1.0\r\n\r\n")150 4573 y(int)150 4682 y(main)f(\(void))150
4792 y({)245 4902 y(int)g(ret;)245 5011 y(int)g(sd,)g(ii;)245
5121 y(gnutls_session_t)d(session;)245 5230 y(char)j(buffer[MAX_BUF)d
(+)j(1);)245 5340 y(gnutls_certificate_credent)o(ials)o(_t)41
b(xcred;)p eop end
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b(56)245 408 y Fs(/*)48 b(variables)d(used)i(in)g(session)f(resuming)
293 518 y(/*)245 628 y(int)h(t;)245 737 y(char)g(*session_data)d(=)k
(NULL;)245 847 y(size_t)f(session_data_size)c(=)k(0;)245
1066 y(gnutls_global_init)c(\());)245 1285 y(/*)48 b(X509)e(stuff)h(/)
245 1395 y(gnutls_certificate_allocat)o(e_cr)o(edo)o(ntia)o(ls)42
b(\(&xcred);)245 1614 y(gnutls_certificate_set_x50)o(9_tr)o(ust)o
(_fil)o(e)g(\(xcred,)k(CAFILE,)f(GNUTLS_X509_FMT_PEM);)245
1833 y(for)i(\(t)h(=)f(0;)g(t)h(<)f(2;)g(t++))341 1943
y({)1288 b(/*)47 b(connect)f(2)i(times)e(to)h(the)g(server)f(/)436
2162 y(sd)i(=)f(tcp_connect)e(\());)436 2381 y(gnutls_init)g
(\(&session,)g(GNUTLS_CLIENT);)436 2600 y(gnutls_priority_set_direct)c
(\(session,)k("PERFORMANCE:!ARCFOUR-128)o(",)d(NULL);)436
2819 y(gnutls_credentials_set)g(\(session,)j(GNUTLS_CRD_CERTIFICATE,)d
(xcred);)436 3039 y(if)48 b(\(t)f(>)g(0))532 3148 y({)627
3258 y(/*)g(if)h(this)e(is)h(not)g(the)g(first)g(time)f(we)h(connect)f
(/)627 3367 y(gnutls_session_set_data)c(\(session,)j(session_data,)f
(session_data_size);)627 3477 y(free)j(\(session_data);)532
3587 y({)436 3806 y(gnutls_transport_set_ptr)42 b(\(session,)j
(\(gnutls_transport_ptr_t))c(sd);)436 4025 y(/*)48
b(Perform)d(the)i(TLS)g(handshake)484 4134 y(/*)436 4244
y(ret)g(=)h(gnutls_handshake)43 b(\(session);)436 4463
y(if)48 b(\(ret)e(<)i(0))532 4573 y({)627 4682 y(fprintf)e(\(stderr,)g
("***)g(Handshake)g(failed\n");)627 4792 y(gnutls_perror)e(\(ret);)
627 4902 y(goto)j(end;)532 5011 y({)436 5121 y(else)532
5230 y({)627 5340 y(sprintf)f(\("-)h(Handshake)f(was)g(completed\n");)
p eop end
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b(57)532 299 y Fs(})436 518 y(if)48 b(\(t)f(==)g(0))532
628 y({)1097 b(/*)47 b(the)g(first)g(time)f(we)i(connect)d(*/)627
737 y(/*)i(get)g(the)g(session)f(data)h(size)f(*/)627
847 y(gnutls_session_get_data)c(\(session,)j(NULL,)h
(&session_data_size);)627 956 y(session_data)f(=)i(malloc)f
(\(session_data_size);)627 1176 y(/*)h(put)g(session)f(data)h(to)g
(the)g(session)f(variable)f(*/)627 1285 y(gnutls_session_get_data)d
(\(session,)j(session_data,)f(&session_data_size);)532
1504 y({)436 1614 y(else)532 1724 y({)1097 b(/*)47 b(the)g(second)f
(time)h(we)g(connect)f(*/)627 1943 y(/*)h(check)g(if)g(we)g(actually)f
(resumed)g(the)g(previous)g(session)g(*/)627 2052 y(if)h
(\(gnutls_session_is_resumed)41 b(\(session))k(!=)j(0))723
2162 y({)818 2271 y(sprintf)e(\("-)h(Previous)f(session)g(was)g
(resumed\n");)723 2381 y({)627 2491 y(else)723 2600
y({)818 2710 y(sprintf)g(\(stderr,)g("****)g(Previous)g(session)g(was)g
(NOT)h(resumed\n");)723 2819 y({)532 2929 y({)436 3148
y(/*)h(This)e(function)g(was)h(defined)e(in)j(a)f(previous)f(example)
484 3258 y(/*)436 3367 y(/*)i(print_info\(session);)42
b(/*)436 3587 y(gnutls_record_send)h(\(session,)i(MSG,)i(strlen)f
(\(MSG));)436 3806 y(ret)h(=)h(gnutls_record_recv)43
b(\(session,)i(buffer,)h(MAX_BUF);)436 3915 y(if)i(\(ret)e(==)h(0))
532 4025 y({)627 4134 y(sprintf)f(\("-)h(Peer)g(has)g(closed)f(the)h
(TLS)g(connection\n");)627 4244 y(goto)g(end;)532 4354
y({)436 4463 y(else)g(if)g(\(ret)g(<)g(0))532 4573 y({)627
4682 y(sprintf)f(\(stderr,)g("****)g(Error:)94 b(\045s\n"),)46
b(gnutls_strerror)e(\(ret));)627 4792 y(goto)j(end;)532
4902 y({)436 5121 y(sprintf)f(\("-)h(Received)f(\045d)h(bytes:)94
b(",)47 b(ret);)436 5230 y(for)g(\(ii)g(=)h(0;)f(ii)g(<)g(ret;)g
(ii++)532 5340 y({)p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(58)627 299 y Fs(fputc)47 b(\(buffer[ii,])d(stdout);)532
408 y({)436 518 y(fputs)j(\("\n",)f(stdout);)436 737
y(gnutls_bye)f(\(session,)h(GNUTLS_SHUT_RDWR);)341 956
y(end:)436 1176 y(tcp_close)g(\(sd);)436 1395 y(gnutls_deinit)f
(\(session);)341 1614 y({)1288 b(/*)47 b(for\(\))g(*/)245
1833 y(gnutls_certificate_free_cr)o(eden)o(tia)o(ls)42
b(\(xcred);)245 2052 y(gnutls_global_deinit)h(\(\);)245
2271 y(return)k(0;);150 2381 y({)150 2614 y Fu(7.3.7)63
b(Simple)41 b(Clien)m(t)g(Example)f(with)h Fn(SRP)f Fu(Authen)m
(tication)150 2761 y FB(The)e(follo)m(wing)h(clien)m(t)h(is)e(a)h(v)m
(ery)f(simple)g Ft(SRP)g(TLS)g FB(clien)m(t)i(whic)m(h)e(connects)g(to)
h(a)g(serv)m(er)f(and)g(au-)150 2870 y(then)m(ticates)f(using)d(a)h
Fm(username)43 b FB(and)34 b(a)h Fm(p)-5 b(asswor)g(d)p
FB(.)57 b(The)34 b(serv)m(er)h(ma)m(y)h(authen)m(ticate)h(itself)e
(using)g(a)150 2980 y(cert\014cate,)e(and)c(in)i(that)f(case)i(it)f
(has)f(to)h(b)s(e)f(v)m(eri\014ed.)150 3148 y Fs(/*)47

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b(This)g(example)f(code)g(is)h(placed)g(in)g(the)g(public)f(domain.)93
b(*)150 3367 y(#ifdef)46 b(HAVE_CONFIG_H)150 3477 y(#)h(include)f
(<config.h>)150 3587 y(#endif)150 3806 y(#include)g(<stdio.h>)150
3915 y(#include)g(<stdlib.h>)150 4025 y(#include)g(<string.h>)150
4134 y(#include)g(<gnutls/gnutls.h>)150 4244 y(#include)g
(<gnutls/extra.h>)150 4463 y(/*)h(Those)g(functions)e(are)i(defined)f
(in)h(other)f(examples.)198 4573 y(/*)150 4682 y(extern)g(void)h
(check_alert)d(\(gnutls_session_t)g(session,)h(int)i(ret);)150
4792 y(extern)f(int)h(tcp_connect)e(\(void\);)150 4902
y(extern)h(void)h(tcp_close)e(\(int)i(sd);)150 5121
y(#define)f(MAX_BUF)g(1024)150 5230 y(#define)g(USERNAME)f("user")150
5340 y(#define)h(PASSWORD)f("pass")p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(59)150 299 y Fs(#define)46 b(CAFILE)g("ca.pem")150
408 y(#define)g(MSG)h("GET)f(/)i(HTTP/1.0\r\n\r\n")150
628 y(int)150 737 y(main)f(\(void\))150 847 y({)245 956
y(int)g(ret;)245 1066 y(int)g(sd,)g(ii;)245 1176 y(gnutls_session_t)d
(session;)245 1285 y(char)j(buffer[MAX_BUF)d(+)j(1);)245
1395 y(gnutls_srp_client_credenti)o(als_)o(t)42 b(srp_cred;)245
1504 y(gnutls_certificate_credenti)o(ials)o(t)f(cert_cred;)245
1724 y(gnutls_global_init)i(\(;\);)245 1943 y(/*)48 b(now)f(enable)f
(the)h(gnutls-extra)d(library)i(which)g(contains)g(the)293
2052 y(/*)i(SRP)f(stuff.)293 2162 y(/*)245 2271 y
(gnutls_global_init_extra)42 b(\(;\);)245 2491 y
(gnutls_srp_allocate_client)o(_cre)o(den)o(tial)o(s)g(\(&srp_cred);)
245 2600 y(gnutls_certificate_allocat)o(e_cr)o(ede)o(ntia)o(ls)g
(\(&cert_cred);)245 2819 y(gnutls_certificate_set_x50)o(9_tr)o(ust)o
(_fil)o(e)g(\(cert_cred,)j(CAFILE,)2155 2929 y(GNUTLS_X509_FMT_PEM);)
245 3039 y(gnutls_srp_set_client_cred)o(enti)o(als)c(\(srp_cred,)k
(USERNAME,)g(PASSWORD);)245 3258 y(/*)j(connects)d(to)i(server)293
3367 y(/*)245 3477 y(sd)h(=)f(tcp_connect)e(\(;\);)245
3696 y(/*)j(Initialize)d(TLS)i(session)293 3806 y(/*)245
3915 y(gnutls_init)e(\(&session,)g(GNUTLS_CLIENT);)245
4244 y(/*)j(Set)f(the)f(priorities.)293 4354 y(/*)245
4463 y(gnutls_priority_set_direct)41 b(\(session,)k
("NORMAL:+SRP:+SRP-RSA:+SRP)o(-DS)o(S"),c(NULL);)245
4682 y(/*)48 b(put)f(the)f(SRP)h(credentials)e(to)i(the)g(current)f
(session)293 4792 y(/*)245 4902 y(gnutls_credentials_set)c(\(session,)j
(GNUTLS_CRD_SRP,)f(srp_cred);)245 5011 y(gnutls_credentials_set)e
(\((session,)j(GNUTLS_CRD_CERTIFICATE,)d(cert_cred);)245
5230 y(gnutls_transport_set_ptr)g(\(session,)j
(\((gnutls_transport_ptr_t))c(sd);)p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(60)245 299 y Fs(/*)48 b(Perform)d(the)i(TLS)g(handshake)293

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408 y(*)245 518 y(ret)g(=)h(gnutls_handshake)43 b(\(session\));245
737 y(if)48 b(\(ret)e(<)i(0))341 847 y({)436 956 y(sprintf)
(\(stderr,)g("***")g(Handshake)g(failed\n");436 1066
y(gnutls_perror)f(\(ret));436 1176 y(goto)i(end);341
1285 y({)245 1395 y(else)341 1504 y({)436 1614 y(sprintf)f(\( "-)h
(Handshake)f(was)h(completed\n");341 1724 y({)245
1943 y(gnutls_record_send)c(\(session,)j(MSG,)g(strlen)g(\(MSG));245
2162 y(ret)h(=)h(gnutls_record_recv)43 b(\(session,)i(buffer,)h
(MAX_BUF);245 2271 y(if)i(\(gnutls_error_is_fatal)41
b(\(ret))47 b(==)g(1)g(\\)h(ret)e(==)i(0))341 2381
y({)436 2491 y(if)g(\(ret)e(==)h(0))532 2600 y({)627
2710 y(sprintf)f(\( "-)h(Peer)g(has)g(closed)f(the)h(GNUTLS)f
(connection\n");627 2819 y(goto)h(end);532 2929 y({)436
3039 y(else)532 3148 y({)627 3258 y(sprintf)f(\(stderr,)g("***")g
(Error:94 b(045s\n"),46 b(gnutls_strerror)e(\(ret));627
3367 y(goto)j(end);532 3477 y({)341 3587 y({)245 3696
y(else)341 3806 y(check_alert)e(\(session,)g(ret));245
4025 y(if)j(\(ret)e(>)i(0))341 4134 y({)436 4244 y(sprintf)e(\( "-)h
(Received)f(045d)h(bytes:94 b(",)47 b(ret));436 4354
y(for)g(\(ii)g(=)h(0);f(ii)g(<)g(ret);g(ii++)532 4463
y({)627 4573 y(fputc)g(\(buffer[ii],)d(stdout);532
4682 y({)436 4792 y(fputs)j(\("\n",)f(stdout);341
4902 y({)245 5011 y(gnutls_bye)f(\(session,)h(GNUTLS_SHUT_RDWR);150
5230 y(end:)p eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(61)245 299 y Fs(tcp_close)46 b(\(sd);245 518 y(gnutls_deinit)f
(\(session);245 737 y(gnutls_srp_free_client_cre)o(dent)o(ial)o(s)d
(\(srp_cred);245 847 y(gnutls_certificate_free_cr)o(eden)o(tia)o(ls)g
(\(cert_cred);245 1066 y(gnutls_global_deinit)h(\());245
1285 y(return)k(0);150 1395 y({)150 1628 y Fu(7.3.8)63
b(Simple)41 b(Clien)m(t)g(Example)f(with)h Fn(TLS/IA)f
Fu(Supp)s(ort)150 1775 y FB(The)26 b(follo)m(wing)i(clien)m(t)g(is)e(a)
h(simple)f(clien)m(t)i(whic)m(h)f(uses)f(the)g Ft(TLS/IA)g
FB(extension)h(to)g(authen)m(ticate)i(with)150 1884 y(the)i(serv)m(er.)
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2381 y(#)h(include)f(<config.h>)150 2491 y(#endif)150
2710 y(#include)g(<stdio.h>)150 2819 y(#include)g(<stdlib.h>)150
2929 y(#include)g(<string.h>)150 3039 y(#include)g(<sys/types.h>)150
3148 y(#include)g(<sys/socket.h>)150 3258 y(#include)g(<arpa/inet.h>)
150 3367 y(#include)g(<unistd.h>)150 3477 y(#include)g
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3806 y(/*)h(A)h(basic)e(TLS)h(client,)f(with)g(anonymous)g
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y(*)150 4134 y(#define)f(MAX_BUF)g(1024)150 4244 y(#define)g(MSG)h
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(tcp_connect)e(\(void\);)150 4573 y(extern)h(void)h(tcp_close)e(\(int)i
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(\(gnutls_session_t)e(session,)j(void)g(*ptr,)723 5011
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(*)i(newlen\))150 5121 y({)245 5340 y(if)g(\(last\))p
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(\045.*s"\n"),)723 408 y(lastlen,)e(\(int\))i(lastlen,)e(last\);)245
518 y(else)341 628 y(printf)h(\("-)h(new)g(application)e(phase\n");)
245 847 y(*new)i(=)h(gnutls_strdup)c(\("client)h(avp");)245
956 y(if)j(\(!*new\))341 1066 y(return)e(-1;);245 1176
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1614 y(gnutls_ia_permute_inner_se)o(cret)41 b(\(session,)k(3,)i
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y(int)150 2381 y(main)g(\(void\))150 2491 y({)245 2600
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2819 y(char)j(buffer[MAX_BUF)d(+)j(1;);)245 2929 y
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4025 y(*)/245 4134 y(gnutls_ia_set_client_avp_f)o(unct)o(ion)41
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956 y(gnutls_transport_set_ptr)d(\(session,)j
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436 2052 y(goto)i(end);341 2162 y({})245 2271 y(else)341
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341 2600 y({})245 2819 y(if)h(\(!gnutls_ia_handshake_p)41
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2819 y(end:245 3039 y(tcp_close)g(\(sd\);)245 3258 y(gnutls_deinit)f
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1066 y(#define)g(MSG)h("GET)f(/)i(HTTP/1.0\r\n\r\n")150
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4682 y(session.set_priority)d(("NORMAL"),j(NULL);)532
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150 1943 y(#include)g(<arpa/inet.h>)150 2052 y(#include)g
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3806 y(const)g(char)f(*SERVER)g(=)i("127.0.0.1");245
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4463 y(#include)g(<unistd.h>)150 4573 y(#include)g(<gnutls/gnutls.h>)
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956 y(return)i(0;)150 1066 y{)150 1285 y(int)150 1395
y(main)g((void\))150 1504 y{)245 1614 y(int)g(err,)g(listen_sd);245
1724 y(int)g(sd,)g(ret);245 1833 y(struct)g(sockaddr_in)d(sa_serv);245
1943 y(struct)j(sockaddr_in)d(sa_cli);245 2052 y(int)j(client_len);245
2162 y(char)g(topbuf[512]);245 2271 y(gnutls_session_t)d(session);245
2381 y(char)j(buffer[MAX_BUF)d(+)j(1);)245 2491 y(int)g(optval)f(=)i
(1);245 2710 y(*)g(to)f(disallow)e(usage)i(of)g(the)g(blocking)e
(/dev/random)293 2819 y(*)245 2929 y(gcry_control)g
((GCRYCTL_ENABLE_QUICK_RA)o(NDOM)o(,)d(0));245 3148
y(*)48 b(this)e(must)h(be)g(called)f(once)h(in)g(the)g(program)293
3258 y(*)245 3367 y(gnutls_global_init)c((\));245 3587
y(gnutls_certificate_allocat)o(e_cr)o(ede)o(ntia)o(ls)f
((&x509_cred\));245 3696 y(gnutls_certificate_set_x50)o(9_tr)o(ust)o
(_fil)o(e)g((x509_cred,)j(CAFILE,))2155 3806 y(GNUTLS_X509_FMT_PEM);)
245 4025 y(gnutls_certificate_set_x50)o(9_cr)o(l_f)o(ile)c
((x509_cred,)k(CRLFILE,))2059 4134 y(GNUTLS_X509_FMT_PEM);)245
4354 y(gnutls_certificate_set_x50)o(9_ke)o(y_f)o(ile)c((x509_cred,)k
(CERTFILE,)g(KEYFILE,))2059 4463 y(GNUTLS_X509_FMT_PEM);)245
4682 y(generate_dh_params)e((\));245 4902 y(gnutls_priority_init)g
((&priority_cache,)g("NORMAL",)i(NULL\));245 5230 y
(gnutls_certificate_set_dh_)o(para)o(ms)c((x509_cred,)k(dh_params\));p
eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(71)245 299 y Fs(*)48 b(Socket)e(operations)293 408
y(*)245 518 y(listen_sd)g(=)h(socket)f((AF_INET,)g(SOCK_STREAM,)e
(0));245 628 y(SOCKET_ERR)h((listen_sd,)g("socket"));245
847 y(memset)i((&sa_serv,)e("\0'),h(sizeof)g((sa_serv\));)245
956 y(sa_serv.sin_family)d(=)48 b(AF_INET);245 1066 y
(sa_serv.sin_addr.s_addr)42 b(=)47 b(INADDR_ANY);245
1176 y(sa_serv.sin_port)d(=)j(htons)g((PORT\));284 b(*)47
b(Server)f(Port)h(number)f(*)245 1395 y(setsockopt)f((listen_sd,)g
(SOL_SOCKET,)g(SO_REUSEADDR,)f((void)i(*)i(&optval,)d(sizeof)h
((int\));)245 1614 y(err)h(=)h(bind)e((listen_sd,)f((SA)i(*)g(&)h
(sa_serv,)d(sizeof)h((sa_serv\));)245 1724 y(SOCKET_ERR)f((err,)i
("bind"));245 1833 y(err)g(=)h(listen)e((listen_sd,)f(1024\));245
1943 y(SOCKET_ERR)g((err,)i("listen"));245 2162 y(printf)g(("Server
e(ready.)94 b(Listening)45 b(to)i(port)g("\045d'.\n\n",)e(PORT);)245
2381 y(client_len)g(=)j(sizeof)e((sa_cli));245 2491
y(for)h((;))341 2600 y{)436 2710 y(session)f(=)i
(initialize_tls_session)41 b((\));436 2929 y(sd)48 b(=)f(accept)f

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(\(listen_sd,)f(\(SA)i(*)\))g(&)g(sa_cli,)f(&client_len\);)436
3148 y(printf)g(\("-)h(connection)e(from)i(\045s,)g(port)g(\045d\n",)
818 3258 y/inet_ntop)e(\(AF_INET,)h(&sa_cli.sin_addr,)d(topbuf,)1343
3367 y(sizeof)j(\(topbuf\)),)f( ntohs)i(\(sa_cli.sin_port\));)436
3587 y(gnutls_transport_set_ptr)42 b(\(session,)j
(\(gnutls_transport_ptr_t\))c(sd\);)436 3696 y(ret)47
b(=)h(gnutls_handshake)43 b(\(session\);)436 3806 y(if)48
b(\(ret)e(<)i(0\))532 3915 y({)627 4025 y(close)f(\(sd\);)627
4134 y(gnutls_deinit)d(\(session\);)627 4244 y(fprintf)i(\(stderr,)g
("****)g(Handshake)g(has)g(failed)h(\045s)\n\n",)1057
4354 y(gnutls_strerror)c(\(ret\));)627 4463 y(continue;)532
4573 y({)436 4682 y(sprintf)j(\("-)h(Handshake)f(was)h(completed\n");)
436 4902 y(/*)h(see)e(the)h(Getting)f(peer's)g(information)f(example)h
(*)436 5011 y(/*)i(print_info(\(session\));)42 b(*)436
5230 y(for)47 b(\(:;))532 5340 y({)p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(72)627 299 y Fs(memset)46 b(\(buffer,)g(0,)h(MAX_BUF)f(+ )h(1\);)627
408 y(ret)g(=)h(gnutls_record_recv)42 b(\(session,)k(buffer,)g
(MAX_BUF\);)627 628 y(if)h(\(ret)g(==)g(0\))723 737 y({)818
847 y(sprintf)f(\("\n-)h(Peer)f(has)h(closed)f(the)h(GNUTLS)f
(connection\n");)818 956 y(break;)723 1066 y({)627
1176 y(else)h(if)g(\(ret)g(<)g(0\))723 1285 y({)818 1395
y(sprintf)f(\(stderr,)g("\n****)g(Received)f(corrupted)g(")1248
1504 y("data\045d\).)92 b(Closing)46 b(the)h(connection.\n\n",)c
(ret\);)818 1614 y(break;)723 1724 y({)627 1833 y(else)k(if)g(\(ret)g
(>)g(0\))723 1943 y({)818 2052 y(/*)g(echo)g(data)g(back)f(to)h(the)g
(client)866 2162 y(/*)818 2271 y(gnutls_record_send)c(\(session,)i
(buffer,)h(strlen)g(\(buffer\));)723 2381 y({)532 2491
y({)436 2600 y(sprintf)g(\("\n");)436 2710 y(/*)i(do)f(not)g(wait)f
(for)h(the)g(peer)g(to)g(close)f(the)h(connection.)484
2819 y(/*)436 2929 y(gnutls_bye)e(\(session,)h(GNUTLS_SHUT_WR\);)436
3148 y(close)h(\(sd\);)436 3258 y(gnutls_deinit)e(\(session\);)341
3477 y({)245 3587 y(close)i(\(listen_sd\);)245 3806 y
(gnutls_certificate_free_cr)o(eden)o(tia)o(ls)42 b(\(x509_cred\);)245
3915 y(gnutls_priority_deinit)g(\(priority_cache\);)245
4134 y(gnutls_global_deinit)h(\( \);)245 4354 y(return)k(0;)150
4573 y({)150 4806 y Fu(7.4.2)63 b(Ec)m(ho)40 b(Serv)m(er)g(with)h
Fn(X.509)h Fu(Authen)m(tication)e(Is)I)150 4953 y FB(The)23
b(follo)m(wing)h(example)g(is)f(a)h(serv)m(er)f(whic)m(h)g(supp)s(orts)
e Ft(X.509)h FB(authen)m(tication.)40 b(This)22 b(serv)m(er)i(supp)s
(orts)150 5062 y(the)31 b(exp)s(ort-grade)f(cipher)g(suites,)h(the)g
(DHE)g(ciphersuites)f(and)g(session)g(resuming.)150 5230
y Fs(/*)47 b(This)g(example)f(code)g(is)h(placed)g(in)g(the)g(public)f
(domain.)93 b(*)/p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(73)150 299 y Fs(#ifdef)46 b(HAVE_CONFIG_H)150 408 y(#h(include)f
(<config.h>)150 518 y(#endif)150 737 y(#include)g(<stdio.h>)150
847 y(#include)g(<stdlib.h>)150 956 y(#include)g(<errno.h>)150
1066 y(#include)g(<sys/types.h>)150 1176 y(#include)g(<sys/socket.h>)
150 1285 y(#include)g(<arpa/inet.h>)150 1395 y(#include)g
(<netinet/in.h>)150 1504 y(#include)g(<string.h>)150
1614 y(#include)g(<unistd.h>)150 1724 y(#include)g(<gnutls/gnutls.h>)
150 1833 y(#include)g(<gcrypt.h>)617 b(*/)47 b(for)g(gcry_control)e(*/)
150 2052 y(#define)h(KEYFILE)g("key.pem")150 2162 y(#define)g(CERTFILE)
f("cert.pem")150 2271 y(#define)h(CAFILE)g("ca.pem")150
2381 y(#define)g(CRLFILE)g("crl.pem")150 2600 y(*/)h(This)g(is)g(a)g
(sample)g(TLS)f(1.0)h(echo)g(server.)198 2710 y(*/)g(Export-grade)e
(ciphersuites)f(and)j(session)f(resuming)f(are)i(supported.)198
2819 y(*/)150 3039 y(#define)f(SA)h(struct)f(sockaddr)150
3148 y(#define)g(SOCKET_ERR(err,s))d(if(err==-1))i
({perror(s);return(1);})150 3258 y(#define)h(MAX_BUF)g(1024)150
3367 y(#define)g(PORT)g(5556)715 b(*/)47 b(listen)g(to)g(5556)f(port)h
(*/)150 3477 y(#define)f(DH_BITS)g(1024)150 3696 y(*/)h(These)g(are)f
(global)h(*/)150 3806 y(gnutls_certificate_crede)o(ntia)o(ls_t)41
b(cert_cred;)150 4025 y(static)46 b(void)h(wrap_db_init)d((void);)150
4134 y(static)i(void)h(wrap_db_deinit)d((void);)150
4244 y(static)i(int)h(wrap_db_store)d((void)j(*dbf,)f(gnutls_datum_t)e
(key),j(gnutls_datum_t)e(data);)150 4354 y(static)i(gnutls_datum_t)e
(wrap_db_fetch)g((void)j(*dbf,)f(gnutls_datum_t)e(key);)150
4463 y(static)i(int)h(wrap_db_delete)d((void)i(*dbf,)h(gnutls_datum_t)
d(key);)150 4682 y(#define)i(TLS_SESSION_CACHE)d(50)150
4902 y(static)j(gnutls_session_t)150 5011 y(initialize_tls_session)c
((void))150 5121 y({)245 5230 y(gnutls_session_t)i(session;)p
eop end

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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(74)245 299 y Fs(gnutls_init)45 b((&session,)g(GNUTLS_SERVER);)245
518 y(/*)j(Use)f(the)f(default)g(priorities,)f(plus,)h(export)g(cipher)
h(suites.)293 628 y(*/)245 737 y(gnutls_priority_set_direct)41
b((session,)k("EXPORT",)h(NULL);)245 956 y(gnutls_credentials_set)c
((session,)j(GNUTLS_CRD_CERTIFICATE,)d(cert_cred);)245
1176 y(/*)48 b(request)d(client)i(certificate)d(if)j(any.)293
1285 y(*/)245 1395 y(gnutls_certificate_server_)o(set_)o(req)o(uest)41
b((session,)k(GNUTLS_CERT_REQUEST);)245 1614 y
(gnutls_dh_set_prime_bits)d((session,)j(DH_BITS);)245
1833 y(if)j((TLS_SESSION_CACHE)42 b(!=)48 b(0))341
1943 y({)436 2052 y(gnutls_db_set_retrieve_fun)o(cti)o(on)42
b((session,)j(wrap_db_fetch);)436 2162 y(gnutls_db_set_remove_funct)o
(ion)c((session,)k(wrap_db_delete);)436 2271 y
(gnutls_db_set_store_functi)o(on)c((session,)46 b(wrap_db_store);)436
2381 y(gnutls_db_set_ptr)d((session,)j(NULL);)341 2491

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y()245 2710 y(return)h(session;)150 2819 y()}150 3039
y(gnutls_dh_params_t)c(dh_params;)150 3148 y(/*)k(Export-grade)e
(cipher)h(suites)g(require)g(temporary)f(RSA)198 3258
y(*)i(keys.)198 3367 y(/*)150 3477 y(gnutls_rsa_params_t)c(rsa_params;)
150 3696 y(static)j(char)h(srp_dh_group2048[])c(=)245
3806 y("-----BEGIN)i(DH)i(PARAMETERS-----\n")245 3915
y("MIIBBwKCAQCsa9tBMkqam/Fm3)o(l4Ti)o(Vgv)o(r3K2)o(ZRmH)o(7gf)o(8MZK)o
(UPbV)o(gUK)o(NzKc)o(u0oJ)o(nt\)\o(n")245 4025 y
("gZPgDxdnoT3VixKrSwMxDc1/S)o(KnaB)o(P1Q)o(6Ag5)o(ae23)o(Z7D)o(PYJU)o
(XmhY)o(6s2)o(YaBf)o(vV+q)o(ro\)\o(n")245 4134 y
("KRipli8Lk7hV+XmT7Jde6qgNd)o(Arb9)o(P90)o(c1nQ)o(QdXD)o(Pqc)o(dKB5)o
(EaxR)o(3O8)o(qXtD)o(oj+4)o(AW\)\o(n")245 4244 y
("dr0gekNsZIHx0rkHhxdGGludM)o(uaI+ )o(HdI)o(VEUj)o(tSSw)o(1X1)o(ep3o)o
(nddL)o(s+g)o(Ms+9)o(v1L7)o(N4\)\o(n")245 4354 y
("YWAnkATleuavh05zA85TKZzMB)o(Bx7w)o(wjY)o(KlaY)o(86jQ)o(w4J)o(xrjX)o
(46dv)o(7tp)o(S1yA)o(PYn3)o(rk\)\o(n")245 4463 y
("Nd4jbVJfVHWbZeNy/NaO8g+nE)o(R+eS)o(v9z)o(AgEC)o(\n")41
b("-----END)46 b(DH)h(PARAMETERS-----\n");)150 4682 y(static)f(int)150
4792 y(generate_dh_params)d(\(void\))150 4902 y({)245
5011 y(gnutls_datum_t)h(dparams)i(=)i({)f(srp_dh_group2048,)c(sizeof)j
(\(srp_dh_group2048\))d(;)245 5121 y(/*)48 b(Here)e(instead)g(of)h
(generating)e(Diffie-Hellman)f(parameters)h(\(for)i(use)g(with)f(DHE)
293 5230 y(*)i(kx)f(algorithms\))e(we)i(import)f(them.)293
5340 y(/*)p eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(75)245 299 y Fs(gnutls_dh_params_init)42 b(\(&dh_params\);)245
408 y(gnutls_dh_params_import_pk)o(cs3)f(\(dh_params,)k(&dparams,)g
(GNUTLS_X509_FMT_PEM);)245 628 y(return)i(0;);150 737
y()150 956 y(static)f(int)150 1066 y(generate_rsa_params)d(\(void\))
150 1176 y({)245 1285 y(gnutls_rsa_params_init)f(\(&rsa_params\);)245
1504 y(/*)48 b(Generate)d(RSA)i(parameters)e(-)j(for)e(use)h(with)g
(RSA-export)293 1614 y(*)h(cipher)e(suites.)93 b(This)47
b(is)g(an)g(RSA)g(private)f(key)h(and)g(should)f(be)293
1724 y(*)i(discarded)d(and)i(regenerated)e(once)h(a)i(day.)e(once)h
(every)f(500)293 1833 y(*)i(transactions)c(etc.)94 b(Depends)46
b(on)h(the)g(security)f(requirements.)293 1943 y(/*)245
2162 y(gnutls_rsa_params_generate)o(2)c(\(rsa_params,)i(512\);)245
2381 y(return)j(0;);150 2491 y()150 2710 y(int)150 2819
y(main)g(\(void\))150 2929 y({)245 3039 y(int)g(err,)g(listen_sd;)245
3148 y(int)g(sd,)g(ret;)245 3258 y(struct)g(sockaddr_in)d(sa_serv;);245
3367 y(struct)j(sockaddr_in)d(sa_cli;);245 3477 y(int)j(client_len;);245
3587 y(char)g(topbuf[512];);245 3696 y(gnutls_session_t)d(session;);245
3806 y(char)j(buffer[MAX_BUF)d(+)j(1;);245 3915 y(int)g(optval)f(=)i
(1;);245 4025 y(char)f(name[256];);245 4244 y(strcpy)g(\(name,)f("Echo)g
(Server"););245 4463 y(/*)i(to)f(disallow)e(usage)i(of)g(the)g
(blocking)e(/dev/random)293 4573 y(/*)245 4682 y(gcry_control)g

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(\(\GCRYCTL_ENABLE_QUICK_RA)o(NDOM)o(,)d(0);)245 4902
y(/*)48 b(this)e(must)h(be)g(called)f(once)h(in)g(the)g(program)293
5011 y(/*)245 5121 y(gnutls_global_init)c(\(\);)p eop
end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(76)245 299 y Fs(gnutls_certificate_allocat)o(e_cr)o(edo)o(ntia)o(ls)
42 b(\(&cert_cred);)245 518 y(gnutls_certificate_set_x50)o(9_tr)o(ust)
o(_fil)o(e)g(\(cert_cred,)j(CAFILE,)2155 628 y(GNUTLS_X509_FMT_PEM);)
245 847 y(gnutls_certificate_set_x50)o(9_cr)o(l_f)o(ile)c(\(cert_cred,)
k(CRLFILE,)2059 956 y(GNUTLS_X509_FMT_PEM);)245 1176
y(gnutls_certificate_set_x50)o(9_ke)o(y_f)o(ile)c(\(cert_cred,)k
(CERTFILE,)g(KEYFILE,)2059 1285 y(GNUTLS_X509_FMT_PEM);)245
1504 y(generate_dh_params)e(\(\);)245 1614 y(generate_rsa_params)g
(\(\);)245 1833 y(if)48 b(\(TLS_SESSION_CACHE)42 b(!)=)48
b(0))341 1943 y({)436 2052 y(wrap_db_init)d(\(\);)341
2162 y()245 2381 y(gnutls_certificate_set_dh_)o(para)o(ms)c
(\(\(cert_cred,)k(dh_params);)245 2491 y(gnutls_certificate_set_rsa)o
(_exp)o(ort)o(_par)o(ams)c(\(\(cert_cred,)k(rsa_params);)245
2710 y(/*)j(Socket)e(operations)293 2819 y(/*)245 2929
y(listen_sd)g(=)h(socket)f(\(AF_INET,)g(SOCK_STREAM,)e(0);)245
3039 y(SOCKET_ERR)h(\(listen_sd,)g("socket");)245 3258
y(memset)i(\(&sa_serv,)e("\0'),)h(sizeof)g(\(sa_serv));)245
3367 y(sa_serv.sin_family)d(=)48 b(AF_INET);)245 3477
y(sa_serv.sin_addr.s_addr)42 b(=)47 b(INADDR_ANY);)245
3587 y(sa_serv.sin_port)d(=)j(htons)g(\(PORT);)284 b(/*)47
b(Server)f(Port)h(number)f(/*)245 3806 y(setsockopt)f(\(listen_sd,)g
(SOL_SOCKET,)g(SO_REUSEADDR,)f(\(void)i(*)i(&optval,)d(sizeof)h
(\(\(int));)245 4025 y(err)h(=)h(bind)e(\(listen_sd,)f(\(SA)i(*)g(&h
(sa_serv,)d(sizeof)h(\(sa_serv));)245 4134 y(SOCKET_ERR)f(\(err,)i
("bind");)245 4244 y(err)g(=)h(listen)e(\(listen_sd,)f(1024);)245
4354 y(SOCKET_ERR)g(\(err,)i("listen");)245 4573 y(printf)g(\("\045s)f
(ready.)94 b(Listening)45 b(to)i(port)g("\045d'.\n\n",)e(name,)h
(PORT);)245 4792 y(client_len)f(=)j(sizeof)e(\(sa_cli);)245
4902 y(for)h(\(;;)341 5011 y({)436 5121 y(session)f(=)i
(initialize_tls_session)41 b(\(\);)436 5340 y(sd)48 b(=)f(accept)f
(\(\(listen_sd,)f(\(SA)i(*)g(&)g(sa_cli,)f(&client_len);)p
eop end
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b(Ho)m(w)31 b(T)-8 b(o)31 b(Use)g(Gn)m(uTLS)e(in)h(Applications)1552
b(77)436 408 y Fs(printf)46 b(\("-)h(connection)e(from)i(\045s,)g(port)
g(\045d\n",)818 518 y(inet_ntop)e(\(AF_INET,)h(&sa_cli.sin_addr,)d
(topbuf,)1343 628 y(sizeof)j(\(topbuf)),)f(ntohs)i
(\(\(sa_cli.sin_port));)436 847 y(gnutls_transport_set_ptr)42
b(\(session,)j(\(gnutls_transport_ptr_t))c(sd);)436
956 y(ret)47 b(=)h(gnutls_handshake)43 b(\(session);)436

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1066 y(if)48 b(\(ret)e(<)i(0\))532 1176 y({)627 1285
y(close)f(\(sd\);)627 1395 y(gnutls_deinit)d(\(session\);)627
1504 y(fprintf)i(\(stderr,g("***)g(Handshake)g(has)g(failed)h
(\(045s\)\n\n"),1057 1614 y(gnutls_strerror)c(\(ret\));)627
1724 y(continue;)532 1833 y()436 1943 y(sprintf)j(\("-)h(Handshake)f
(was)h(completed\n");)436 2162 y(/*)h(print_info(\(session\);)42
b(/)436 2381 y(for)47 b(\(:;))532 2491 y({)627 2600
y(memset)f(\(buffer,)g(0,)h(MAX_BUF)f(+))h(1\);)627 2710
y(ret)g(=)h(gnutls_record_recv)42 b(\(session,k(buffer,)g(MAX_BUF\);)
627 2929 y(if)h(\(ret)g(==)g(0\))723 3039 y({)818 3148
y(sprintf)f(\("\n-)h(Peer)f(has)h(closed)f(the)h(TLS)g
(connection\n");)818 3258 y(break;)723 3367 y({)627
3477 y(else)g(if)g(\(ret)g(<)g(0\))723 3587 y({)818 3696
y(fprintf)f(\(stderr,g("\n***)g(Received)f(corrupted)g(")1248
3806 y("data(\(045d\).)92 b(Closing)46 b(the)h(connection.\n\n"),c
(ret\);)818 3915 y(break;)723 4025 y({)627 4134 y(else)k(if)g(\(ret)g
(>)g(0\))723 4244 y({)818 4354 y(/*)g(echo)g(data)g(back)f(to)h(the)g
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(buffer,)h(strlen)g(\(buffer\));)723 4682 y({)532 4792
y({)436 4902 y(sprintf)g(\("\n");)436 5011 y(/*)j(do)f(not)g(wait)f
(for)h(the)g(peer)g(to)g(close)f(the)h(connection.)484
5121 y(/)436 5230 y(gnutls_bye)e(\(session,)h(GNUTLS_SHUT_WR\);)p
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956 y(if)h(\(TLS_SESSION_CACHE)42 b(!=)48 b(0\))341 1066
y({)436 1176 y(wrap_db_deinit)c(\(l\);)341 1285 y({)245
1504 y(gnutls_certificate_free_cr)o(eden)o(tia)o(ls)e(\(cert_cred\);)
245 1724 y(gnutls_global_deinit)h(\(l\);)245 1943 y(return)k(0;150
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3477 y({)245 3587 y(char)h(session_id[MAX_SESSION_ID]o(_SI)o(ZE);)245
3696 y(size_t)g(session_id_size;)245 3915 y(char)g
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y(size_t)g(session_data_size;)150 4134 y({)g(CACHE);150
4354 y(static)f(CACHE)g(*cache_db;)150 4463 y(static)g(int)h
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150 628 y({)245 737 y(free)j(\(cache_db\);)245 847 y(cache_db)f(=)h
(NULL;)245 956 y(return;)150 1066 y({)150 1285 y(static)f(int)150
1395 y(wrap_db_store)e(\(void\))j(*dbf,)f(gnutls_datum_t)e(key,)i
(gnutls_datum_t)e(data\))150 1504 y({)245 1724 y(if)k(\(cache_db)d(==)i
(NULL\))341 1833 y(return)f(-1;)245 2052 y(if)i(\(key.size)d(>)i
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y(if)i(\(data.size)d(>)i(MAX_SESSION_DATA_SIZE\))341
2381 y(return)f(-1;)245 2600 y(memcpy)h(\(cache_db[cache_db_ptr])o(.se)
o(ssio)o(n_id)o(,)42 b(key.data,)j(key.size\);)245 2710
y(cache_db[cache_db_ptr].ses)o(sion)o(_id)o(_siz)o(e)d(=)47
b(key.size;)245 2929 y(memcpy)g(\(cache_db[cache_db_ptr])o(.se)o(ssio)o
(n_da)o(ta,)41 b(data.data,)k(data.size\);)245 3039 y
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b(data.size;)245 3258 y(cache_db_ptr++;)245 3367 y(cache_db_ptr)d
(\045=i(TLS_SESSION_CACHE;)245 3587 y(return)g(0;)150
3696 y({)150 3915 y(static)f(gnutls_datum_t)150 4025
y(wrap_db_fetch)e(\(void\))j(*dbf,)f(gnutls_datum_t)e(key\))150
4134 y({)245 4244 y(gnutls_datum_t)g(res)j(=)h({)f(NULL,)g(0)g({);)245
4354 y(int)g(i;)245 4573 y(if)h(\(cache_db)d(==)i(NULL\))341
4682 y(return)f(res;)245 4902 y(for)h(\(i)h(=)f(0;)g(i)h(<)f
(TLS_SESSION_CACHE;)c(i++\))341 5011 y({)436 5121 y(if)48
b(\(key.size)d(==)i(cache_db[i].session_id_s)o(ize)41
b(&&)627 5230 y(memcmp)46 b(\(key.data,)f(cache_db[i].session_id,)d
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847 y(if)j(\(res.data)f(==)h(NULL\))723 956 y(return)f(res;)627
1176 y(memcpy)g(\(res.data,)f(cache_db[i].session_data,)c(res.size\);)
627 1395 y(return)46 b(res;)532 1504 y({)341 1614 y({)245
1724 y(return)h(res;)150 1833 y({)150 2052 y(static)f(int)150
2162 y(wrap_db_delete)e(\(void\))i(*dbf,)h(gnutls_datum_t)d(key\))150
2271 y({)245 2381 y(int)j(i;)245 2600 y(if)h(\(cache_db)d(==)i(NULL\))
341 2710 y(return)f(-1;)245 2929 y(for)h(\(i)h(=)f(0;)g(i)h(<)f
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3915 y(return)e(0;)532 4025 y({)341 4134 y({)245 4354
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956 y(#include)g(<stdlib.h>)150 1066 y(#include)g(<errno.h>)150
1176 y(#include)g(<sys/types.h>)150 1285 y(#include)g(<sys/socket.h>)
150 1395 y(#include)g(<arpa/inet.h>)150 1504 y(#include)g
(<netinet/in.h>)150 1614 y(#include)g(<string.h>)150
1724 y(#include)g(<unistd.h>)150 1833 y(#include)g(<gnutls/gnutls.h>)
150 1943 y(#include)g(<gnutls/openpgp.h>)150 2162 y(#define)g(KEYFILE)g
("secret.asc")150 2271 y(#define)g(CERTFILE)f("public.asc")150
2381 y(#define)h(RINGFILE)f("ring.gpg")150 2600 y(/*)i(This)g(is)g(a)g
(sample)g(TLS)f(1.0-OpenPGP)f(echo)i(server.)198 2710
y(/*)150 3039 y(#define)f(SA)h(struct)f(sockaddr)150
3148 y(#define)g(SOCKET_ERR\(\err,s\))d(if(\err===-1\))i
({perror\(\s\);return\(\1\);})150 3258 y(#define)h(MAX_BUF)g(1024)150
3367 y(#define)g(PORT)g(5556)715 b(/*)47 b(listen)g(to)g(5556)f(port)h
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b(cred;);150 3915 y(gnutls_dh_params_t)i(dh_params;);150
4134 y(static)j(int)150 4244 y(generate_dh_params)d\(\(void\))150
4354 y(\{)245 4573 y(/*)48 b(Generate)d(Diffie-Hellman)f(parameters)h(-)
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293 5011 y(/*)245 5121 y(gnutls_dh_params_init)d\(\(&dh_params\);)245
5230 y(gnutls_dh_params_generate2)f\(\(dh_params,k(DH_BITS\);)p
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y(static)f(gnutls_session_t)150 737 y(initialize_tls_session)c
(\(\(void\))150 847 y(\{)245 956 y(gnutls_session_t)i(session;);245
1176 y(gnutls_init)h\(\(&session,)g(GNUTLS_SERVER\););245
1395 y(gnutls_priority_set_direct)c\(\(session,)k("NORMAL",)h(NULL\);)

245 1614 y(/*)i(request)d(client)i(certificate)d(if)j(any.)293
 1724 y(/*)245 1833 y(gnutls_certificate_server_)o(set_)o(req)o(uest)41
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 2271 y(return)i(session;)150 2381 y({})150 2600 y(int)150
 2710 y(main)g(\(void\))150 2819 y({})245 2929 y(int)g(err,)g(listen_sd);
 245 3039 y(int)g(sd,)g(ret);)245 3148 y(struct)g(sockaddr_in)d(sa_serv);
 245 3258 y(struct)j(sockaddr_in)d(sa_cli);)245 3367 y(int)j(client_len);
 245 3477 y(char)g(topbuf[512]);)245 3587 y(gnutls_session_t)d(session);
 245 3696 y(char)j(buffer[MAX_BUF)d(+)j(1);)245 3806 y(int)g(optval)f(=
 i(1);)245 3915 y(char)f(name[256]);)245 4134 y(strcpy)g(\(name,)f("Echo)g
 (Server");)245 4354 y(/*)i(this)e(must)h(be)g(called)f(once)h(in)g
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 4792 y(gnutls_certificate_allocat)o(e_cr)o(ede)o(ntia)o(ls)f
 (\(&cred\);)245 4902 y(gnutls_certificate_set_ope)o(np)g)o(_ke)o(yrin)o
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 5340 y(GNUTLS_OPENPGP_FMT_BASE64)o(\);)p eop end
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 b(dh_params\);)245 847 y(/*)h(Socket)e(operations)293
 956 y(/*)245 1066 y(listen_sd)g(=)h(socket)f(\(AF_INET,)g(SOCK_STREAM,)
 e(0));)245 1176 y(SOCKET_ERR)h(\(listen_sd,)g("socket");)245
 1395 y(memset)i(\(&sa_serv,)e("\0'),h(sizeof)g(\(sa_serv\));)245
 1504 y(sa_serv.sin_family)d(=)48 b(AF_INET);)245 1614
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 (sa_serv,)d(sizeof)h(\(sa_serv\));)245 2271 y(SOCKET_ERR)f(\(err,)i
 ("bind");)245 2381 y(err)g(=)h(listen)e(\(listen_sd,)f(1024));)245
 2491 y(SOCKET_ERR)g(\(err,)i("listen");)245 2710 y(printf)g(\(\\045s)f
 (ready.)94 b(Listening)45 b(to)i(port)g(\045d'.\\n\\n"),e(name,)h
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 3039 y(for)h(\(;;))341 3148 y({})436 3258 y(session)f(=)i
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 (\(listen_sd,)f(\(SA)i(*)g(&)g(sa_cli,)f(&client_len);)436
 3696 y(printf)g(\(\\-h(connection)e(from)i(\045s,)g(port)g(\045d\\n"),
 818 3806 y(inet_ntop)e(\(AF_INET,)h(&sa_cli.sin_addr,)d(topbuf),1343
 3915 y(sizeof)j(\(topbuf\)),)f(ntohs)i(\(sa_cli.sin_port));)436
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4682 y(gnutls_deinit)d(\(session);)627 4792 y(fprintf)i(\(stderr,;g
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1176 y(if)h(\(ret)g(==)g(0))723 1285 y({)818 1395 y(sprintf)f("\n-)h
(Peer)f(has)h(closed)f(the)h(GNUTLS)f(connection\n");)818
1504 y(break;);723 1614 y({)627 1724 y(else)h(if)g(\(ret)g(<)g(0))723
1833 y({)818 1943 y(sprintf)f(\(stderr,)g("\n***)g(Received)f
(corrupted)g(")1248 2052 y("data\(\(045d\).)92 b(Closing)46
b(the)h(connection.\n\n"),c(ret);)818 2162 y(break;);723
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2710 y(*)/818 2819 y(gnutls_record_send)c(\(session,)i(buffer,)h
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3148 y(sprintf)g("\n\n");)436 3258 y(/*)i(do)f(not)g(wait)f(for)h(the)
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3477 y(gnutls_bye)e(\(session,)h(GNUTLS_SHUT_WR);)436
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4025 y({)245 4134 y(close)i(\(listen_sd);)245 4354 y
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555 y(functionalit)m(y)32 b(with)e(a)h(cert\014cate)h(serv)m(er.)41
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1066 y(#)h(include)f(<config.h>)150 1176 y(#endif)150
1395 y(#include)g(<stdio.h>)150 1504 y(#include)g(<stdlib.h>)150
1614 y(#include)g(<errno.h>)150 1724 y(#include)g(<sys/types.h>)150
1833 y(#include)g(<sys/socket.h>)150 1943 y(#include)g(<arpa/inet.h>)
150 2052 y(#include)g(<netinet/in.h>)150 2162 y(#include)g(<string.h>)

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150 2271 y(#include)g(<unistd.h>)150 2381 y(#include)g
(<gnutls/gnutls.h>)150 2491 y(#include)g(<gnutls/extra.h>)150
2710 y(#define)g(SRP_PASSWD)f("tpasswd")150 2819 y(#define)h
(SRP_PASSWD_CONF)d("tpasswd.conf")150 3039 y(#define)j(KEYFILE)g
("key.pem")150 3148 y(#define)g(CERTFILE)f("cert.pem")150
3258 y(#define)h(CAFILE)g("ca.pem")150 3477 y(/*)h(This)g(is)g(a)g
(sample)g(TLS-SRP)e(echo)i(server.)198 3587 y(/*)150
3806 y(#define)f(SA)h(struct)f(sockaddr)150 3915 y(#define)g
(SOCKET_ERR(err,s))d(if(err==1))i({ perror(s);return(1);})150
4025 y(#define)h(MAX_BUF)g(1024)150 4134 y(#define)g(PORT)g(5556)715
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(global)h(/*)150 4463 y(gnutls_srp_server_creden)o(tial)o(s_t)41
b(srp_cred;)150 4573 y(gnutls_certificate_crede)o(ntia)o(ls_t)g
(cert_cred;)150 4792 y(static)46 b(gnutls_session_t)150
4902 y(initialize_tls_session)c((void))150 5011 y({)245
5121 y(gnutls_session_t)i(session;)245 5340 y(gnutls_init)h
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628 y(gnutls_credentials_set)h((session,)j(GNUTLS_CRD_SRP,)f
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3039 y(char)j(buffer[MAX_BUF]d(+)j(1);)245 3148 y(int)g(optval)f(=)i
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5340 y(generate_dh_params)d((void))p eop end
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2600 y(char)g(topbuf[512];);245 2710 y(gnutls_session_t)d(session;);245
2819 y(char)j(buffer[MAX_BUF]d(+)j(1););245 2929 y(int)g(optval)f(=)i
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492 V 41 w(lev)m(el)p 3101 492 V 42 w(t)565 601 y Fe(level)12
b Ff(,)32 b(gn)m(utls)p 1140 601 V 40 w(alert)p 1361
601 V 41 w(description)p 1837 601 V 40 w(t)f Fe(desc)12
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976 y Ff(desc)6 b FB(:)40 b(is)31 b(the)f(alert)i(description)390
1108 y(This)41 b(function)h(will)g(send)g(an)g(alert)h(to)g(the)f(p)s
(eer)f(in)h(order)g(to)g(inform)g(him)f(of)h(something)390
1218 y(imp)s(ortan)m(t)35 b(\(eg.)53 b(his)34 b(Certi\014cate)i(could)e
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(ignore)g(the)f(alert)i(and)390 1437 y(con)m(tin)m(ue.)390
1569 y(The)d(error)g(co)s(de)h(of)g(the)g(underlying)e(record)i(send)f
(function)g(will)h(b)s(e)f(returned,)g(so)h(y)m(ou)g(ma)m(y)390
1679 y(also)d(receiv)m(e)i Fs(GNUTLS_E_INTERRUPTED)24
b FB(or)31 b Fs(GNUTLS_E_AGAIN)26 b FB(as)31 b(w)m(ell.)390
1811 y Fn>Returns:)46 b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29
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37 5 v 55 w(anon)p 795 2116 V 54 w(allo)s(cate)p 1260
2116 V 53 w(clien)m(t)p 1605 2116 V 54 w(creden)m(tials)3350
2309 y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_anon_allocate_)q
(clie)q(nt_)q(cre)q(den)q(tial)q(s)565 2418 y Fg(\()p
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1794 2418 V 42 w(t)31 b(*)f Fe(sc)12 b Fg(\)390 2528
y Ff(sc)6 b FB(:)40 b(is)31 b(a)g(p)s(oin)m(ter)f(to)h(a)g
Fs(gnutls_anon_client_cred)o(anti)o(als_)o(t)24 b FB(structure.)390
2660 y(This)31 b(structure)g(is)h(complex)g(though)f(to)i(manipulate)f
(directly)g(th)m(us)f(this)h(help)s(er)f(function)g(is)390
2770 y(pro)m(vided)f(in)g(order)g(to)h(allo)s(cate)i(it.)390
2902 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
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3290 y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_anon_allocate_)q
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3642 y(This)31 b(structure)g(is)h(complex)g(though)f(to)i(manipulate)f
(directly)g(th)m(us)f(this)h(help)s(er)f(function)g(is)390

3751 y(pro)m(vided)f(in)g(order)g(to)h(allo)s(cate)i(it.)390
 3884 y Fn(Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
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 4079 V 55 w(clien)m(t)p 1395 4079 V 53 w(creden)m(tials)3350
 4272 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
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2711 y Fu(gn)m(utls)p 483 2711 37 5 v 55 w(anon)p 795
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1352 3018 V 40 w(creden)m(tials)p 1813 3018 V 42 w(t)30
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b Fh(gnutls_credentials_typ)q(e_t)59 b(gnutls_auth_server_get)q(_typ)q
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1737 1884 V 41 w(t)31 b Fe(sc)12 b Ff(,)31 b(gn)m(utls)p

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b FB(structure.)390 2240 y Ff(x509)p 579 2240 V 41 w(crl)p
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(the)e(CRLs)g(asso)s(ciated)i(with)e(the)g(giv)m(en)i(creden)m(tials.)
390 2650 y Fn(Since:)41 b FB(2.4.0)150 2851 y Fu(gn)m(utls)p
483 2851 37 5 v 55 w(cert\014cate)p 1068 2851 V 52 w(send)p
1360 2851 V 55 w(x509)p 1663 2851 V 55 w(rdn)p 1904 2851
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4008 y(This)45 b(function)g(has)g(no)g(e\013ect)i(in)e(clien)m(ts,)51
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4320 y Fu(gn)m(utls)p 483 4320 37 5 v 55 w(cert\014cate)p
1068 4320 V 52 w(serv)m(er)p 1442 4320 V 54 w(set)p 1648
4320 V 54 w(request)3350 4519 y FB([F]-8 b(unction))-3599
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3632 y FB([F]-8 b(unction)]-3599 b Fh(void)54 b
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2638 3741 V 39 w(function)f(*)h Fe(func)12 b Fg(\()390
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609 y Fg(\()p Ff(gn)m(utls)p 846 609 28 4 v 41 w(cert\014cate)p
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984 718 V 41 w(cert\014cate)p 1412 718 V 42 w(creden)m(tials)p
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1508 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
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984 1837 V 41 w(cert\014cate)p 1412 1837 V 42 w(creden)m(tials)i
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54 w(\014le)3350 2874 y FB([F]-8 b(unction))-3599 b Fh(int)53
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b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)g(*)g Fe(crlfile)12
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390 3836 y(using)25 b Fs(gnutls_certificate_veri)o(fy_)o(peer)o(s2\(\))
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390 408 y(times.)390 542 y Fn>Returns:)40 b FB(n)m(um)m(b)s(er)29
b(of)i(CRLs)f(pro)s(cessed,)g(or)g(a)h(negativ)m(e)h(v)-5
b(alue)31 b(on)f(error.)150 739 y Fu(gn)m(utls)p 483
739 37 5 v 55 w(cert\014cate)p 1068 739 V 52 w(set)p
1272 739 V 54 w(x509)p 1574 739 V 55 w(crl)3350 934 y
FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_certificate_se)q(t_x5)q
(09_)q(crl)565 1043 y Fg(\()p Ff(gn)m(utls)p 846 1043
28 4 v 41 w(cert\014cate)p 1274 1043 V 42 w(creden)m(tials)p
1737 1043 V 41 w(t)31 b Fe(res)12 b Ff(.)31 b(gn)m(utls)p

2308 1043 V 41 w(x509)p 2532 1043 V 41 w(crl)p 2674 1043
V 40 w(t)g(*)g Fe(crl_list)12 b Ff(,)32 b(in)m(t)565
1153 y Fe(crl_list_size)12 b Fg())390 1263 y Ff(res)t
FB(:)40 b(is)31 b(a)f Fs(gnutls_certificate_credent)o(ials)o(_t)24
b FB(structure.)390 1396 y Ff(crl)p 497 1396 V 40 w(list)r
FB(:)42 b(is)30 b(a)h(list)g(of)f(trusted)g(CRLs.)40
b(They)30 b(should)f(ha)m(v)m(e)j(b)s(een)e(v)m(eri\014ed)g(b)s(efore.)
390 1530 y Ff(crl)p 497 1530 V 40 w(list)p 658 1530 V
41 w(size)5 b FB(:)42 b(holds)30 b(the)g(size)h(of)g(the)f(crl)p
1839 1530 V 41 w(list)390 1663 y(This)36 b(function)g(adds)g(the)g
(trusted)g(CRLs)g(in)g(order)g(to)h(v)m(erify)g(clien)m(t)h(or)f(serv)m
(er)g(cert\014ates.)390 1773 y(In)c(case)h(of)g(a)g(clien)m(t)h(this)
f(is)f(not)h(required)f(to)h(b)s(e)f(called)h(if)g(the)g
(cert\014ates)h(are)f(not)g(v)m(eri\014ed)390 1882
y(using)25 b Fs(gnutls_certificate_veri)o(fy_)o(peer)o(s2(\))o
FB(.)33 b(This)24 b(function)h(ma)m(y)h(b)s(e)e(called)i(m)m(ultiple)
390 1992 y(times.)390 2125 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)390
2259 y Fn(Since:)41 b FB(2.4.0)150 2456 y Fu(gn)m(utls)p
483 2456 37 5 v 55 w(cert\014cate)p 1068 2456 V 52 w(set)p
1272 2456 V 54 w(x509)p 1574 2456 V 55 w(k)m(ey)p 1812
2456 V 53 w(\014le)3350 2651 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_certificate_se)q(t_x5)q(09_)q(key)q(_fi)q(le)565
2760 y Fg(\()p Ff(gn)m(utls)p 846 2760 28 4 v 41 w(cert\014cate)p
1274 2760 V 42 w(creden)m(tials)p 1737 2760 V 41 w(t)31
b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)g(*)g Fe(certfile)12
b Ff(,)32 b(const)f(c)m(har)g(*)565 2870 y Fe(keyfile)12
b Ff(,)32 b(gn)m(utls)p 1244 2870 V 41 w(x509)p 1468
2870 V 41 w(crt)p 1620 2870 V 40 w(fm)m(t)p 1796 2870
V 41 w(t)e Fe(type)12 b Fg(\()390 2980 y Ff(res)t FB(:)40
b(is)31 b(a)f Fs(gnutls_certificate_credent)o(ials)o(_t)24
b FB(structure.)390 3113 y Ff(cert\014le)5 b FB(:)39
b(is)26 b(a)g(\014le)g(that)h(con)m(taining)g(the)f(cert\014cate)i
(list)e(\(path\))h(for)e(the)h(sp)s(eci\014ed)f(priv)-5
b(ate)26 b(k)m(ey)-8 b(,)390 3223 y(in)30 b(PK)m(CS7)g(format,)h(or)f
(a)h(list)g(of)g(cert\014ates)390 3356 y Ff(k)m(ey\014le)5
b FB(:)42 b(is)30 b(a)h(\014le)f(that)h(con)m(tains)h(the)e(priv)-5
b(ate)31 b(k)m(ey)390 3490 y Ff(t)m(y)p)s(e)5 b FB(:)41
b(is)30 b(PEM)h(or)f(DER)390 3623 y(This)d(function)h(sets)h(a)g
(cert\014cate/priv)-5 b(ate)31 b(k)m(ey)e(pair)f(in)g(the)h(gn)m(utls)
p 2789 3623 V 40 w(cert\014cate)p 3216 3623 V 42 w(creden)m(tials)p
3679 3623 V 42 w(t)390 3733 y(structure.)153 b(This)67
b(function)g(ma)m(y)h(b)s(e)g(called)h(more)f(than)f(once)i(\(in)e
(case)i(m)m(ultiple)390 3842 y(k)m(ey)s/cert\014ates)33
b(exist)f(for)e(the)g(serv)m(er\.)390 3976 y(Curren)m(tly)40
b(only)h(PK)m(CS-1)g(enco)s(ded)g(RSA)f(and)h(DSA)g(priv)-5
b(ate)41 b(k)m(ey)s)h(are)f(accepted)h(b)m(y)f(this)390
4085 y(function.)390 4219 y Fn>Returns:)f Fs(GNUTLS_E_SUCCESS)26

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 4416 y Fu(gn)m(utls)p 483 4416 37 5 v 55 w(cert\014cate)p
 1068 4416 V 52 w(set)p 1272 4416 V 54 w(x509)p 1574 4416
 V 55 w(k)m(ey)p 1812 4416 V 53 w(mem)3350 4611 y FB([F]-8
 b(unction))-3599 b Fh(int)53 b(gnutls_certificate_se)q(t_x5)q(09_)q
 (key)q(_me)q(m)565 4720 y Fg(\()p Ff(gn)m(utls)p 846
 4720 28 4 v 41 w(cert\014cate)p 1274 4720 V 42 w(creden)m(tials)p
 1737 4720 V 41 w(t)31 b Fe(res)12 b Ff(,)31 b(const)g(gn)m(utls)p
 2546 4720 V 40 w(datum)p 2844 4720 V 40 w(t)g(*)f Fe(cert)12
 b Ff(,)32 b(const)565 4830 y(gn)m(utls)p 811 4830 V 41
 w(datum)p 1110 4830 V 39 w(t)f(*)g Fe(key)12 b Ff(,)31
 b(gn)m(utls)p 1755 4830 V 40 w(x509)p 1978 4830 V 41
 w(cert)p 2130 4830 V 41 w(fm)m(t)p 2307 4830 V 40 w(t)g
 Fe(type)12 b Fg(\)390 4940 y Ff(res)t FB(:)40 b(is)31
 b(a)f Fs(gnutls_certificate_credent)o(ials)o(t)24 b
 FB(structure.)390 5073 y Ff(cert)r FB(:)41 b(con)m(tains)32
 b(a)f(cert\014cate)h(list)f(\(path\))g(for)f(the)h(sp)s(eci\014ed)e
 (priv)-5 b(ate)31 b(k)m(ey)390 5206 y Ff(k)m(ey)8 b FB(:)41
 b(is)31 b(the)f(priv)-5 b(ate)31 b(k)m(ey)-8 b(,)32 b(or)e
 Fs(NULL)390 5340 y Ff(t)m(yp)s(e)5 b FB(:)41 b(is)30
 b(PEM)h(or)f(DER)p eop end
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 b(k)m(ey)e(pair)f(in)g(the)h(gn)m(utls)p 2789 299 28
 4 v 40 w(cert\014cate)p 3216 299 V 42 w(creden)m(tials)p
 3679 299 V 42 w(t)390 408 y(structure.)153 b(This)67
 b(function)g(ma)m(y)h(b)s(e)g(called)h(more)f(than)f(once)i(\(in)e
 (case)i(m)m(ultiple)390 518 y(k)m(ey)s/cert\014cates)33
 b(exist)f(for)e(the)g(serv)m(er\).)390 648 y Fn(Curren)m(tly)g(are)h
 (supp)s(orted:)39 b FB(RSA)30 b(PK)m(CS-1)h(enco)s(ded)f(priv)-5
 b(ate)30 b(k)m(ey)s,i(DSA)e(priv)-5 b(ate)31 b(k)m(ey)s.)390
 777 y(DSA)i(priv)-5 b(ate)33 b(k)m(ey)s)g(are)g(enco)s(ded)g(the)g(Op)s
 (enSSL)d(w)m(a)m(y)-8 b(,)35 b(whic)m(h)d(is)h(an)f(ASN.1)i(DER)f
 (sequence)390 887 y(of)e(6)f(INTEGERS)g(-)h(v)m(ersion,)g(p,)f(q,)g(g,)g
 h(pub,)e(priv.)390 1017 y(Note)d(that)f(the)g(k)m(ey)Usage)i
 (\(2.5.29.15\))h(PKIX)c(extension)i(in)e(X.509)i(cert\014cates)h(is)e
 (supp)s(orted.)390 1126 y(This)i(means)h(that)h(cert\014cates)h(in)m
 (tended)e(for)f(signing)i(cannot)f(b)s(e)f(used)h(for)f(ciphersuites)h
 (that)390 1236 y(require)i(encryption.)390 1366 y(If)d(the)g
 (cert\014cate)i(and)e(the)g(priv)-5 b(ate)28 b(k)m(ey)g(are)f(giv)m
 (en)h(in)f(PEM)g(enco)s(ding)g(then)g(the)g(strings)g(that)390
 1475 y(hold)j(their)g(v)-5 b(alues)31 b(m)m(ust)f(b)s(e)g(n)m(ull)g
 (terminated.)390 1605 y(The)i Fs(key)f FB(ma)m(y)i(b)s(e)f
 Fs(NULL)f FB(if)i(y)m(ou)g(are)f(using)g(a)h(sign)f(callbac)m(k,)k(see)
 d Fs(gnutls_sign_callback_)390 1715 y(set(\))p FB(.)390
 1844 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31

b(success,)f(or)h(an)f(error)g(co)s(de.)150 2034 y Fu(gn)m(utls)p
483 2034 37 5 v 55 w(cert\014cate)p 1068 2034 V 52 w(set)p
1272 2034 V 54 w(x509)p 1574 2034 V 55 w(k)m(ey)3350
2221 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_certificate_se)q
(t_x5)q(09_)q(key)565 2331 y Fg(\()p Ff(gn)m(utls)p 846
2331 28 4 v 41 w(cert\014cate)p 1274 2331 V 42 w(creden)m(tials)p
1737 2331 V 41 w(t)31 b Fe(res)12 b Ff(,)31 b(gn)m(utls)p
2308 2331 V 41 w(x509)p 2532 2331 V 41 w(cert)p 2684 2331
V 40 w(t)g(*)g Fe(cert_list)12 b Ff(,)32 b(in)m(t)565
2440 y Fe(cert_list_size)12 b Ff(,)34 b(gn)m(utls)p 1610
2440 V 41 w(x509)p 1834 2440 V 41 w(privk)m(ey)p 2168
2440 V 40 w(t)d Fe(key)12 b Fg(\)390 2550 y Ff(res)t
FB(:)40 b(is)31 b(a)f Fs(gnutls_certificate_credent)o(ials)o(_t)24
b FB(structure.)390 2680 y Ff(cert)p 547 2680 V 41 w(list)r
FB(:)41 b(con)m(tains)32 b(a)e(cert\014cate)j(list)e(\(path\))g(for)f
(the)g(sp)s(eci\014ed)g(priv)-5 b(ate)31 b(k)m(ey)390
2809 y Ff(cert)p 547 2809 V 41 w(list)p 709 2809 V 40
w(size)5 b FB(:)42 b(holds)30 b(the)h(size)g(of)f(the)h(cert\014cate)h
(list)390 2939 y Ff(k)m(ey)8 b FB(:)41 b(is)31 b(a)f(gn)m(utls)p
1010 2939 V 41 w(x509)p 1234 2939 V 41 w(privk)m(ey)p
1568 2939 V 40 w(t)h(k)m(ey)390 3069 y(This)c(function)h(sets)h(a)g
(cert\014cate/priv)-5 b(ate)31 b(k)m(ey)e(pair)f(in)g(the)h(gn)m(utls)
p 2789 3069 V 40 w(cert\014cate)p 3216 3069 V 42 w(creden)m(tials)p
3679 3069 V 42 w(t)390 3178 y(structure.)153 b(This)67
b(function)g(ma)m(y)h(b)s(e)g(called)h(more)f(than)f(once)i(\(in)e
(case)i(m)m(ultiple)390 3288 y(k)m(ey)s/cert\014cates)33
b(exist)f(for)e(the)g(serv)m(er).)390 3418 y Fn>Returns:)40
b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s
(de.)390 3547 y Fn(Since:)41 b FB(2.4.0)150 3737 y Fu(gn)m(utls)p
483 3737 37 5 v 55 w(cert\014cate)p 1068 3737 V 52 w(set)p
1272 3737 V 54 w(x509)p 1574 3737 V 55 w(simple)p 1971
3737 V 55 w(pk)m(cs12)p 2381 3737 V 54 w(\014le)3350
3924 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_certificate_se)q
(t_x5)q(09_)q(sim)q(ple)q(_pkc)q(s12)q(_fi)q(le)565 4034
y Fg(\()p Ff(gn)m(utls)p 846 4034 28 4 v 41 w(cert\014cate)p
1274 4034 V 42 w(creden)m(tials)p 1737 4034 V 41 w(t)31
b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)g(*)g Fe(pkcs12file)12
b Ff(,)565 4143 y(gn)m(utls)p 811 4143 V 41 w(x509)p
1035 4143 V 41 w(cert)p 1187 4143 V 40 w(fm)m(t)p 1363
4143 V 41 w(t)30 b Fe(type)12 b Ff(,)32 b(const)e(c)m(har)h(*)g
Fe(password)12 b Fg(\)390 4253 y Ff(res)t FB(:)40 b(is)31
b(a)f Fs(gnutls_certificate_credent)o(ials)o(_t)24 b
FB(structure.)390 4383 y Ff(pk)m(cs12\014le)5 b FB(:)42
b(\014lename)31 b(of)f(\014le)h(con)m(taining)h(PK)m(CS)p
Fs(12)d FB(blob.)390 4512 y Ff(t)m(yp)s(e)5 b FB(:)41
b(is)30 b(PEM)h(or)f(DER)h(of)f(the)h Fs(pkcs12file)p
FB(.)390 4642 y Ff(passw)m(ord)t FB(:)40 b(optional)31
b(passw)m(ord)f(used)f(to)j(decrypt)e(PK)m(CS)p Fs(12)f

FB(014le,)h(bags)h(and)f(k)m(ey).390 4772 y(This)86
b(function)g(sets)i(a)f(cert\014cate/priv)-5 b(ate)89
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y(gn)m(utls)p 636 4881 V 40 w(cert\014cate)p 1063 4881
V 43 w(creden)m(tials)p 1527 4881 V 41 w(t)45 b(structure.)84
b(This)44 b(function)h(ma)m(y)h(b)s(e)e(called)i(more)f(than)390
4991 y(once)31 b(\(in)f(case)i(m)m(ultiple)f(k)m(ey/cert\014cates)i
(exist)f(for)e(the)g(serv)m(er\).)390 5121 y Fn(MA)m(C:)i
FB(ed)f(PK)m(CS)p Fs(12)f FB(\014les)h(are)h(supp)s(orted.)42
b(Encrypted)31 b(PK)m(CS)p Fs(12)f FB(bags)h(are)h(supp)s(orted.)42
b(En-)390 5230 y(rypted)32 b(PK)m(CS)p Fs(8)f FB(priv)-5
b(ate)32 b(k)m(ey)s(h(are)f(supp)s(orted.))44 b(Ho)m(w)m(ev)m(er,)35
b(only)d(passw)m(ord)g(based)f(securit)m(y)-8 b(,)390
5340 y(and)30 b(the)g(same)h(passw)m(ord)f(for)g(all)h(op)s(erations,)g
(are)g(supp)s(orted.)p eop end
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b(priv)-5 b(ate)29 b(k)m(ey)s(h(ma)m(y)g(b)s(e)f(RSA)g(PK)m(CS)p
Fs(1)f FB(or)h(DSA)h(priv)-5 b(ate)29 b(k)m(ey)s(h(enco)s(ded)f(in)g
(the)h(Op)s(enSSL)390 408 y(w)m(a)m(y)-8 b(,)390 545
y(PK)m(CS)p Fs(12)44 b FB(\014le)i(ma)m(y)g(con)m(tain)h(man)m(y)e(k)m
(ey)s(h(and/or)g(cert\014cates,))51 b(and)45 b(there)h(is)f(no)h(w)m(a)m
(y)g(to)390 655 y(iden)m(tify)31 b(whic)m(h)f(k)m(ey/cert\014cate)k
(pair)d(y)m(ou)g(w)m(an)m(t.)42 b(Y)-8 b(ou)31 b(should)f(mak)m(e)i
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(one)f(k)m(ey/cert\014cate)j(pair)c(and/or)g(one)h(CRL.)390
901 y(It)j(is)h(b)s(eliev)m(ed)g(that)g(the)f(limitations)i(of)f(this)f
(function)g(is)g(acceptable)j(for)d(most)g(usage,)j(and)390
1010 y(that)g(an)m(y)g(more)f(\015exibilit)m(y)h(w)m(ould)g(in)m(tro)s
(duce)f(complexit)m(y)i(that)f(w)m(ould)f(mak)m(e)h(it)g(harder)e(to)
390 1120 y(use)30 b(this)g(functionalit)m(y)i(at)f(all.)390
1257 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)150 1458 y Fu(gn)m(utls)p
483 1458 37 5 v 55 w(cert\014cate)p 1068 1458 V 52 w(set)p
1272 1458 V 54 w(x509)p 1574 1458 V 55 w(simple)p 1971
1458 V 55 w(pk)m(cs12)p 2381 1458 V 54 w(mem)3350 1657
y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_certificate_se)q(t_x5)
q(09_)q(sim)q(ple)q(_pkc)q(s12)q(_me)q(m)565 1766 y Fg(\()p
Ff(gn)m(utls)p 846 1766 28 4 v 41 w(cert\014cate)p 1274
1766 V 42 w(creden)m(tials)p 1737 1766 V 41 w(t)31 b
Fe(res)12 b Ff(,)31 b(const)g(gn)m(utls)p 2546 1766 V
40 w(datum)f(*)h Fe(p12blob)12 b Ff(,)565 1876 y(gn)m(utls)p
811 1876 V 41 w(x509)p 1035 1876 V 41 w(cert)p 1187 1876
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Ff(,)32 b(const)e(c)m(har)h(*)g Fe(password)12 b Fg(\))390
1986 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs(gnutls_certificate_credent)o
(ials)o(_t)24 b FB(structure.)390 2122 y Ff(p12blob)r

FB(:)41 b(the)30 b(PK)m(CS)p Fs(12)f FB(blob.)390 2259
y Ff(t)m(y)s(e)5 b FB(:)41 b(is)30 b(PEM)h(or)f(DER)h(of)f(the)h
Fs(pkcs12file)p FB(.)390 2395 y Ff(passw)m(ord)t FB(:)40
b(optional)31 b(passw)m(ord)f(used)f(to)j(decrypt)e(PK)m(CS)p
Fs(12)f FB(\014le,)h(bags)h(and)f(k)m(ey)s.)390 2532 y(This)86
b(function)g(sets)i(a)f(cert\014cate/priv)-5 b(ate)89
b(k)m(ey)f(pair)e(and/or)h(a)g(CRL)f(in)h(the)390 2642
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b(This)44 b(function)h(ma)m(y)h(b)s(e)e(called)i(more)f(than)390
2751 y(once)31 b(\(in)f(case)i(m)m(ultiple)f(k)m(ey)s/cert\014cates)i
(exist)f(for)e(the)g(serv)m(er).\).390 2888 y Fn(MA)m(C:):i
FB(ed)f(PK)m(CS)p Fs(12)f FB(\014les)h(are)h(supp)s(orted.)42
b(Encrypted)31 b(PK)m(CS)p Fs(12)f FB(bags)h(are)h(supp)s(orted.)42
b(En-)390 2997 y(rypted)32 b(PK)m(CS)p Fs(8)f FB(priv)-5
b(ate)32 b(k)m(ey)s)h(are)f(supp)s(orted.)44 b(Ho)m(w)m(ev)m(er,)35
b(only)d(passw)m(ord)g(based)f(securit)m(y)-8 b(,)390
3107 y(and)30 b(the)g(same)h(passw)m(ord)f(for)g(all)h(op)s(erations,)g
(are)g(supp)s(orted.)390 3243 y(The)e(priv)-5 b(ate)29
b(k)m(ey)s)h(ma)m(y)g(b)s(e)f(RSA)g(PK)m(CS)p Fs(1)f FB(or)h(DSA)h(priv)
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b FB(\014le)i(ma)m(y)g(con)m(tain)h(man)m(y)e(k)m(ey)s)h(and/or)g
(cert\014cates,)51 b(and)45 b(there)h(is)f(no)h(w)m(a)m(m(y)g(to)390
3599 y(iden)m(tify)31 b(whic)m(h)f(k)m(ey/cert\014cate)k(pair)d(y)m
(ou)g(w)m(an)m(t.)42 b(Y)-8 b(ou)31 b(should)f(mak)m(e)i(sure)e(the)h
(PK)m(CS)p Fs(12)e FB(\014le)390 3709 y(only)h(con)m(tain)i(one)f(k)m
(ey/cert\014cate)j(pair)c(and/or)g(one)h(CRL.)390 3845
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(function)g(is)g(acceptable)j(for)d(most)g(usage,)j(and)390
3955 y(that)g(an)m(y)g(more)f(\015exibilit)m(y)h(w)m(ould)g(in)m(tro)s
(duce)f(complexit)m(y)i(that)f(w)m(ould)f(mak)m(e)h(it)g(harder)e(to)
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V 54 w(x509)p 1574 4539 V 55 w(trust)p 1891 4539 V 54
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y Ff(t)m(y)p)s(e)5 b FB(:)41 b(is)30 b(DER)h(or)f(PEM)390
2416 y(This)40 b(function)g(adds)g(the)h(trusted)g(CAs)f(in)h(order)f
(to)h(v)m(erify)h(clien)m(t)g(or)f(serv)m(er)g(cert\014cates.)390
2526 y(In)33 b(case)h(of)g(a)g(clien)m(t)h(this)f(is)f(not)h(required)f
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(the)f(clien)m(t)i(if)e(a)h(cert\014cate)i(request)d(is)390
3014 y(sen)m(t.)39 b(This)24 b(can)g(b)s(e)g(disabled)g(using)f
Fs(gnutls_certificate_send_x5)o(09_r)o(dn_)o(sequ)o(ence)o(\(\))p
FB(.)390 3173 y Fn>Returns:)40 b FB(the)31 b(n)m(um)m(b)s(er)e(of)i

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4424 y(This)40 b(function)g(adds)g(the)h(trusted)g(CAs)f(in)h(order)f
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4534 y(In)33 b(case)h(of)g(a)g(clien)m(t)h(this)f(is)f(not)h(required)f
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5022 y(sen)m(t.)39 b(This)24 b(can)g(b)s(e)g(disabled)g(using)f
Fs(gnutls_certificate_send_x5)o(09_r)o(dn_)o(sequ)o(ence)o(\(\))p
FB(.)390 5181 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
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5340 y Fn(Since:)41 b FB(2.4.0)p eop end
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b Fg(\()390 717 y Ff(name)5 b FB(:)41 b(is)30 b(a)h(cert\014cate)h(t)m
(yp)s(e)f(name)390 853 y(The)f(names)g(are)h(compared)f(in)g(a)h(case)h
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b(the)g(sp)s(eci\014ed)g(in)f(a)i(string)f(cert\014cate)j(t)m(yp)s(e,)
390 1099 y(or)j Fs(GNUTLS_CERT_UNKNOWN)c FB(on)k(error.)150
1300 y Fu(gn)m(utls)p 483 1300 V 55 w(cert\014cate)p
1068 1300 V 52 w(t)m(yp)s(e)p 1357 1300 V 54 w(get)p
1576 1300 V 54 w(name)3350 1499 y FB([F]-8 b(unction))-3599
b Fh(const)54 b(char)f(*)g(gnutls_certificate_typ)q(e_g)q(et_n)q(ame)

565 1608 y Fg(\()p Ff(gn)m(utls)p 846 1608 28 4 v 41
w(cert\014cate)p 1274 1608 V 42 w(t)m(yp)s(e)p 1490
1608 V 40 w(t)31 b Fe(type)12 b Fg(\())390 1718 y Ff(t)m(yp)s(e)5
b FB(:)41 b(is)30 b(a)h(cert\014cate)i(t)m(yp)s(e)390
1854 y(Con)m(v)m(ert)e(a)g Fs(gnutls_certificate_type_)o(t)24
b FB(t)m(yp)s(e)31 b(to)g(a)g(string.)390 1990 y Fn>Returns:)40
b FB(a)31 b(string)g(that)g(con)m(tains)g(the)g(name)f(of)h(the)g(sp)s
(eci\014ed)e(cert\014cate)k(t)m(yp)s(e),e(or)f Fs(NULL)f
FB(in)390 2100 y(case)i(of)g(unkno)m(wn)e(t)m(yp)s(es.)150
2301 y Fu(gn)m(utls)p 483 2301 37 5 v 55 w(cert\014cate)p
1068 2301 V 52 w(t)m(yp)s(e)p 1357 2301 V 54 w(get)3350
2500 y FB([F]-8 b(unction))-3599 b Fh(gnutls_certificate_ty)q(e_t)59
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2855 y(The)k(cert\014cate)i(t)m(yp)s(e)f(is)f(b)m(y)h(default)f
(X.509,)i(unless)e(it)h(is)f(negotiated)j(as)e(a)f(TLS)g(extension.)390
2991 y Fn>Returns:)40 b FB(the)31 b(curren)m(tly)f(used)g
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3501 y(gnutls_certificate_ty)q(e_l)q(ist)52 b Fg(\()31
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(to)f(use)g(Op)s(enPGP)f(cert\014cates,)k(y)m(ou)390
3720 y(m)m(ust)e(link)h(to)g(libgn)m(utls-extra)g(and)f(call)i
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(session)390 3213 y(This)36 b(function)g(will)h(try)f(to)h(v)m(erify)g
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(gnutls_check_version)e Fg(\()p Ff(const)32 b(c)m(har)e(*)h
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e(Library)g(v)m(ersion.)390 4842 y(See)i Fs(GNUTLS_VERSION)26
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4994 y Fn(Return)32 b(v)-5 b(alue:)45 b FB(Chec)m(k)32
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(the)g(one)g(giv)m(en)i(as)390 5103 y(a)j(string)f(in)h
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2129 y Fn>Returns:)51 b FB(length)35 b(\(in)h(b)m(ytes\))g(of)g(the)f
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y Fn>Returns:)38 b FB(a)26 b(p)s(oin)m(ter)g(to)g(a)g(string)g(that)g
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Fs(NULL)p FB(.)150 3429 y Fu(gn)m(utls)p 483 3429 37
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 (b)s(e)f(pre)p(s(ended)f(b)m(y)i(TLS)f(or)h(SSL)e(dep)s(ending)h(of)390
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 b(v)-5 b(ariable)31 b(indicating)g(cipher,)f(or)h Fs(NULL)p
 FB(.)390 4527 y Ff(mac)6 b FB(:)41 b(output)30 b(v)-5
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 Fs(NULL)p FB(.)390 4683 y Ff(v)m(ersion)p FB(:)41 b(output)30
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 390 5213 y Fn>Returns:)38 b FB(the)26 b(name)f(of)h Fs(idx)e
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Fs(NULL)p FB(.)150 2321 y Fu(gn)m(utls)p 483 2321 37
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1112 1374 V 53 w(set)3350 1569 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_credentials_se)q(t)e Fg(\()p Ff(gn)m(utls)p
1836 1569 28 4 v 41 w(session)p 2146 1569 V 40 w(t)31
b Fe(session)12 b Ff(,)565 1679 y(gn)m(utls)p 811 1679
V 41 w(creden)m(tials)p 1273 1679 V 41 w(t)m(yp)s(e)p
1488 1679 V 40 w(t)31 b Fe(type)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(cred)12 b Fg(\)390 1788 y Ff(session)p FB(:)41 b(is)30
b(a)h Fs(gnutls_session_t)26 b FB(structure.)390 1922
y Ff(t)m(yp)s(e)5 b FB(:)41 b(is)30 b(the)h(t)m(yp)s(e)g(of)f(the)h
(creden)m(tials)390 2055 y Ff(cred)t FB(:)40 b(is)31
b(a)f(p)s(oin)m(ter)h(to)g(a)g(structure.)390 2189 y(Sets)e(the)f
(needed)h(creden)m(tials)h(for)e(the)h(sp)s(eci\014ed)f(t)m(yp)s(e.)40
b(Eg)29 b(username,)f(passw)m(ord)g(-)h(or)g(public)390
2298 y(and)24 b(priv)-5 b(ate)26 b(k)m(ey)s(f(etc.))40
b(The)25 b Fs(cred)f FB(parameter)h(is)g(a)g(structure)g(that)h(dep)s
(ends)d(on)h(the)j(sp)s(eci\014ed)390 2408 y(t)m(yp)s(e)31
b(and)e(on)i(the)f(curren)m(t)g(session)h(\(clien)m(t)h(or)e(serv)m
(er).)390 2541 y(In)36 b(order)g(to)j(minimize)f(memory)g(usage,)i
(and)e(share)f(creden)m(tials)j(b)s(et)m(w)m(een)e(sev)m(eral)h
(threads)390 2651 y(gn)m(utls)30 b(k)m(eep)s)h(a)f(p)s(oin)m(ter)h(to)f
(cred,)h(and)e(not)h(the)h(whole)f(cred)g(structure.)40
b(Th)m(us)29 b(y)m(ou)h(will)h(ha)m(v)m(e)390 2760 y(to)g(k)m(ee)p)g
(the)g(structure)f(allo)s(cated)i(un)m(til)f(y)m(ou)f(call)i
Fs(gnutls_deinit(\)p FB(.)390 2894 y(F)-8 b(or)26 b
Fs(GNUTLS_CRD_ANON)p FB(,)d Fs(cred)h FB(should)g(b)s(e)h
Fs(gnutls_anon_client_creden)o(tial)o(s_t)19 b FB(in)25
b(case)390 3003 y(of)31 b(a)f(clien)m(t.)43 b(In)29 b(case)j(of)e(a)h
(serv)m(er)g(it)f(should)g(b)s(e)g Fs(gnutls_anon_server_cred)o(enti)o
(als)o(t)p FB(.)390 3137 y(F)-8 b(or)26 b Fs(GNUTLS_CRD_SRP)p
FB(,)c Fs(cred)i FB(should)g(b)s(e)h Fs(gnutls_srp_client_cred)o(enti)o

(als_)o(t)19 b FB(in)25 b(case)h(of)390 3247 y(a)31 b(clien)m(t,)h(and)
e Fs(gnutls_srp_server_crede)o(ntia)o(ls_t)o FB(,)25
b(in)30 b(case)h(of)g(a)g(serv)m(er.)390 3380 y(F)-8
b(or)27 b Fs(GNUTLS_CRD_CERTIFICATE)p FB(,)21 b Fs(cred)j
FB(should)h(b)s(e)g Fs(gnutls_certificate_credent)o(ials)o(_)390
3490 y(t)p FB(.)390 3623 y Fn>Returns:)42 b FB(On)30
b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
3733 y(is)f(returned.)150 3930 y Fu(gn)m(utls)p 483 3930
37 5 v 55 w(crypto)p 885 3930 V 53 w(bigin)m(t)p 1248
3930 V 54 w(register2)3350 4125 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_crypto_bigint_)q(regi)q(ste)q(r2)f
Fg(\()p Ff(in)m(t)31 b Fe(priority)12 b Ff(,)33 b(in)m(t)d
Fe(version)12 b Ff(,)565 4234 y(gn)m(utls)p 811 4234
28 4 v 41 w(crypto)p 1107 4234 V 40 w(bigin)m(t)p 1376
4234 V 41 w(st)30 b(*)h Fe(s)12 b Fg(\()390 4344 y Ff(priorit)m(y)c
FB(:)41 b(is)30 b(the)h(priorit)m(y)g(of)f(the)h(in)m(terface)390
4477 y Ff(v)m(ersion)p FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g
Fs(GNUTLS_CRYPT_API_VERSION)390 4611 y Ff(s)t FB(:)40
b(is)31 b(a)f(structure)g(holding)h(new)e(in)m(terface's)j(data)390
4744 y(This)39 b(function)h(will)g(register)h(an)f(in)m(terface)i(for)d
(gn)m(utls)i(to)f(op)s(erate)h(on)f(big)g(in)m(egers.)71
b(An)m(y)390 4854 y(in)m(terface)29 b(registered)f(will)g(o)m(v)m(m
(erride)h(the)f(included)f(in)m(terface.)41 b(The)27
b(in)m(terface)i(with)e(the)h(lo)m(w)m(est)390 4963 y(priorit)m(y)j
(will)g(b)s(e)e(used)h(b)m(y)g(gn)m(utls.)390 5097 y(Note)j(that)f(the)
g(bigin)m(t)g(in)m(terface)h(m)m(ust)f(in)m(terop)s(erate)h(with)e(the)
h(public)f(k)m(ey)h(in)m(terface.)46 b(Th)m(us)390 5206
y(if)30 b(this)h(in)m(terface)h(is)e(up)s(dated)f(the)i
Fs(gnutls_crypto_pk_regist)o(er\()o(\))25 b FB(should)k(also)i(b)s(e)f
(used.)390 5340 y(This)g(function)g(should)f(b)s(e)h(called)h(b)s
(efore)f Fs(gnutls_global_init\(\))p FB(.)p eop end
%%Page: 135 141
TeXDict begin 135 140 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(135)390 299 y(F)-8
b(or)53 b(simplicit)m(y)h(y)m(ou)e(can)h(use)f(the)g(con)m(v)m(enience)
i Fs(gnutls_crypto_bigint_regis)o(ter\()o(\))390 408
y FB(macro.)390 546 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 683
y Fn(Since:)41 b FB(2.6.0)150 885 y Fu(gn)m(utls)p 483
885 37 5 v 55 w(crypto)p 885 885 V 53 w(cipher)p 1269
885 V 54 w(register2)3350 1084 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_crypto_cipher_)q(regi)q(ste)q(r2)f
Fg(\()p Ff(in)m(t)31 b Fe(priority)12 b Ff(,)33 b(in)m(t)d
Fe(version)12 b Ff(,)565 1193 y(gn)m(utls)p 811 1193
28 4 v 41 w(crypto)p 1107 1193 V 40 w(cipher)p 1390 1193
V 39 w(st)31 b(*)g Fe(s)12 b Fg(\()390 1303 y Ff(priorit)m(y)c
FB(:)41 b(is)30 b(the)h(priorit)m(y)g(of)f(the)h(cipher)f(in)m(terface)

390 1440 y Ff(v)m(ersion)p FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g
Fs(GNUTLS_CRYPTO_API_VERSION)390 1577 y Ff(s)t FB(:)40
b(is)31 b(a)f(structure)g(holding)h(new)e(in)m(terface's)j(data)390
1714 y(This)41 b(function)h(will)g(register)h(a)g(cipher)e(in)m
(terface)j(to)f(b)s(e)e(used)g(b)m(y)h(gn)m(utls.)76
b(An)m(y)42 b(in)m(terface)390 1824 y(registered)e(will)g(o)m(v)m
(erride)g(the)g(included)f(engine)h(and)f(b)m(y)g(con)m(v)m(en)m(tion)i
(k)m(ernel)f(implemen)m(ted)390 1934 y(in)m(terfaces)d(should)e(ha)m(v)
m(e)i(priorit)m(y)f(of)g(90.)58 b(The)36 b(in)m(terface)h(with)e(the)h
(lo)m(w)m(est)i(priorit)m(y)e(will)h(b)s(e)390 2043 y(used)30
b(b)m(y)g(gn)m(utls.)390 2180 y(This)g(function)g(should)f(b)s(e)h
(called)h(b)s(efore)f Fs(gnutls_global_init(\))p FB(.)390
2317 y(F)-8 b(or)53 b(simplicit)m(y)h(y)m(ou)e(can)h(use)f(the)g(con)m
(v)m(enience)i Fs(gnutls_crypto_cipher_regis)o(ter\()o\()390
2427 y FB(macro.)390 2564 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 2701
y Fn(Since:)41 b FB(2.6.0)150 2903 y Fu(gn)m(utls)p 483
2903 37 5 v 55 w(crypto)p 885 2903 V 53 w(digest)p 1253
2903 V 55 w(register2)3350 3102 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_crypto_digest_)q(regi)q(ste)q(r2)f
Fg(\()p Ff(in)m(t)31 b Fe(priority)12 b Ff(,)33 b(in)m(t)d
Fe(version)12 b Ff(,)565 3212 y(gn)m(utls)p 811 3212
28 4 v 41 w(crypto)p 1107 3212 V 40 w(digest)p 1379 3212
V 41 w(st)30 b(*)h Fe(s)12 b Fg(\()390 3322 y Ff(priorit)m(y)c
FB(:)41 b(is)30 b(the)h(priorit)m(y)g(of)f(the)h(digest)g(in)m(terface)
390 3459 y Ff(v)m(ersion)p FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g
Fs(GNUTLS_CRYPTO_API_VERSION)390 3596 y Ff(s)t FB(:)40
b(is)31 b(a)f(structure)g(holding)h(new)e(in)m(terface's)j(data)390
3733 y(This)42 b(function)g(will)h(register)h(a)f(digest)g(in)m
(terface)i(to)e(b)s(e)f(used)g(b)m(y)h(gn)m(utls.)78
b(An)m(y)42 b(in)m(terface)390 3842 y(registered)e(will)g(o)m(v)m(m
(erride)g(the)g(included)f(engine)h(and)f(b)m(y)g(con)m(v)m(en)m(tion)i
(k)m(ernel)f(implemen)m(ted)390 3952 y(in)m(terfaces)d(should)e(ha)m(v)
m(e)i(priorit)m(y)f(of)g(90.)58 b(The)36 b(in)m(terface)h(with)e(the)h
(lo)m(w)m(est)i(priorit)m(y)e(will)h(b)s(e)390 4062 y(used)30
b(b)m(y)g(gn)m(utls.)390 4199 y(This)g(function)g(should)f(b)s(e)h
(called)h(b)s(efore)f Fs(gnutls_global_init(\))p FB(.)390
4336 y(F)-8 b(or)53 b(simplicit)m(y)h(y)m(ou)e(can)h(use)f(the)g(con)m
(v)m(enience)i Fs(gnutls_crypto_digest_regis)o(ter\()o\()390
4445 y FB(macro.)390 4582 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 4720
y Fn(Since:)41 b FB(2.6.0)150 4921 y Fu(gn)m(utls)p 483
4921 37 5 v 55 w(crypto)p 885 4921 V 53 w(mac)p 1155
4921 V 54 w(register2)3350 5121 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_crypto_mac_reg)q(iste)q(r2)f Fg(\()p
Ff(in)m(t)31 b Fe(priority)12 b Ff(,)33 b(in)m(t)e Fe(version)12
b Ff(,)565 5230 y(gn)m(utls)p 811 5230 28 4 v 41 w(crypto)p
1107 5230 V 40 w(mac)p 1308 5230 V 40 w(st)31 b(*)g Fe(s)12

b Fg(\))390 5340 y Ff(priorit)m(y)c FB(:)41 b(is)30 b(the)h(priorit)m
 (y)g(of)f(the)h(mac)g(in)m(terface)p eop end
 %%Page: 136 142
 TeXDict begin 136 141 bop 150 -116 a FB(Chapter)30 b(9:)41
 b(F)-8 b(unction)31 b(Reference)2237 b(136)390 299 y
 Ff(v)m(ersion)p FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g
 Fs(GNUTLS_CRYPTO_API_VERSION)390 433 y Ff(s)t FB(:)40
 b(is)31 b(a)f(structure)g(holding)h(new)e(in)m(terface's)j(data)390
 568 y(This)e(function)h(will)h(register)g(a)f(mac)h(in)m(terface)h(to)f
 (b)s(e)e(used)h(b)m(y)g(gn)m(utls.)43 b(An)m(y)31 b(in)m(terface)i
 (regis-)390 677 y(tered)g(will)g(o)m(v)m(erride)h(the)f(included)g
 (engine)g(and)f(b)m(y)h(con)m(v)m(en)m(ention)i(k)m(ernel)f(implemen)m
 (ted)f(in)m(ter-)390 787 y(faces)i(should)e(ha)m(v)m(e)i(priorit)m(y)g
 (of)f(90.)52 b(The)34 b(in)m(terface)i(with)d(the)i(lo)m(w)m(est)g
 (priorit)m(y)g(will)f(b)s(e)g(used)390 897 y(b)m(y)c(gn)m(utls.)390
 1031 y(This)g(function)g(should)f(b)s(e)h(called)h(b)s(efore)f
 Fs(gnutls_global_init(\))p FB(.)390 1166 y(F)-8 b(or)31
 b(simplicit)m(y)g(y)m(ou)g(can)f(use)g(the)g(con)m(v)m(enience)j
 Fs(gnutls_crypto_mac_regis)o(ter\()o(\))24 b FB(macro.)390
 1300 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
 b(success,)f(otherwise)h(an)f(error.)390 1435 y Fn(Since:)41
 b FB(2.6.0)150 1634 y Fu(gn)m(utls)p 483 1634 37 5 v
 55 w(crypto)p 885 1634 V 53 w(pk)p 1071 1634 V 54 w(register2)3350
 1831 y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_crypto_pk_regi)q
 (ster)q(2)f Fg(\()p Ff(in)m(t)31 b Fe(priority)12 b Ff(,)32
 b(in)m(t)f Fe(version)12 b Ff(,)565 1940 y(gn)m(utls)p
 811 1940 28 4 v 41 w(crypto)p 1107 1940 V 40 w(pk)p 1246
 1940 V 39 w(st)31 b(*)g Fe(s)12 b Fg(\))390 2050 y Ff(priorit)m(y)c
 FB(:)41 b(is)30 b(the)h(priorit)m(y)g(of)f(the)h(in)m(terface)390
 2184 y Ff(v)m(ersion)p FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g
 Fs(GNUTLS_CRYPTO_API_VERSION)390 2319 y Ff(s)t FB(:)40
 b(is)31 b(a)f(structure)g(holding)h(new)e(in)m(terface's)j(data)390
 2453 y(This)26 b(function)h(will)h(register)g(an)f(in)m(terface)h(for)f
 (gn)m(utls)g(to)h(op)s(erate)g(on)f(public)g(k)m(ey)g(op)s(erations.)
 390 2563 y(An)m(y)34 b(in)m(terface)i(registered)f(will)g(o)m(v)m(m
 (erride)g(the)f(included)g(in)m(terface.)53 b(The)34
 b(in)m(terface)i(with)e(the)390 2672 y(lo)m(w)m(est)e(priorit)m(y)f
 (will)g(b)s(e)e(used)h(b)m(y)g(gn)m(utls.)390 2807 y(Note)c(that)g(the)
 f(bigin)m(t)h(in)m(terface)g(m)m(ust)f(in)m(terop)s(erate)h(with)f(the)
 g(bigin)m(t)h(in)m(terface.)40 b(Th)m(us)24 b(if)h(this)390
 2917 y(in)m(terface)32 b(is)e(up)s(dated)f(the)i Fs
 (gnutls_crypto_bigint_reg)o(iste)o(r\(\))24 b FB(should)29
 b(also)j(b)s(e)d(used.)390 3051 y(This)h(function)g(should)f(b)s(e)h
 (called)h(b)s(efore)f Fs(gnutls_global_init(\))p FB(.)390
 3186 y(F)-8 b(or)31 b(simplicit)m(y)h(y)m(ou)e(can)h(use)f(the)h(con)m
 (v)m(enience)h Fs(gnutls_crypto_pk_register)o(\(\))24
 b FB(macro.)390 3320 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
 b FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 3455

y Fn(Since:)41 b FB(2.6.0)150 3654 y Fu(gn)m(utls)p 483
3654 37 5 v 55 w(crypto)p 885 3654 V 53 w(rnd)p 1124
3654 V 55 w(register2)3350 3851 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_crypto_rnd_reg)q(iste)q(r2)f Fg(\()p
Ff(in)m(t)31 b Fe(priority)12 b Ff(,)33 b(in)m(t)e Fe(version)12
b Ff(,)565 3960 y(gn)m(utls)p 811 3960 28 4 v 41 w(crypto)p
1107 3960 V 40 w(rnd)p 1285 3960 V 38 w(st)31 b(*)g Fe(s)12
b Fg(\()390 4070 y Ff(priorit)m(y)c FB(:)41 b(is)30 b(the)h(priorit)m
(y)g(of)f(the)h(generator)390 4204 y Ff(v)m(ersion)p
FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g Fs(GNUTLS_CRYPTO_API_VERSION)
390 4339 y Ff(s)t FB(:)40 b(is)31 b(a)f(structure)g(holding)h(new)e
(generator's)j(data)390 4473 y(This)g(function)h(will)h(register)g(a)g
(random)e(generator)j(to)f(b)s(e)e(used)h(b)m(y)g(gn)m(utls.)49
b(An)m(y)34 b(generator)390 4583 y(registered)28 b(will)g(o)m(v)m
(erride)g(the)f(included)g(generator)h(and)f(b)m(y)g(con)m(v)m(en)m
(tion)j(k)m(ernel)d(implemen)m(ted)390 4692 y(generators)i(ha)m(v)m(e)g
(priorit)m(y)f(of)g(90.)41 b(The)27 b(generator)i(with)e(the)h(lo)m(w)m
(est)i(priorit)m(y)e(will)g(b)s(e)f(used)g(b)m(y)390
4802 y(gn)m(utls.)390 4936 y(This)j(function)g(should)f(b)s(e)h(called)
h(b)s(efore)f Fs(gnutls_global_init(\()p FB(.)390 5071
y(F)-8 b(or)31 b(simplicit)m(y)g(y)m(ou)g(can)f(use)g(the)g(con)m(v)m
(enance)j Fs(gnutls_crypto_rnd_regis)o(ter\()o(\()24
b FB(macro.)390 5205 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 5340
y Fn(Since:)41 b FB(2.6.0)p eop end
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TeXDict begin 137 142 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(137)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(crypto)p 885 299 V
53 w(single)p 1239 299 V 55 w(cipher)p 1625 299 V 55
w(register2)3350 496 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_crypto_single_)q(ciph)q(er_)q(reg)q(ist)q(er2)565
606 y Fg(\()p Ff(gn)m(utls)p 846 606 28 4 v 41 w(cipher)p
1130 606 V 40 w(algorithm)p 1553 606 V 41 w(t)30 b Fe(algorithm)12
b Ff(,)33 b(in)m(t)e Fe(priority)12 b Ff(,)33 b(in)m(t)d
Fe(version)12 b Ff(,)565 715 y(gn)m(utls)p 811 715 V
41 w(crypto)p 1107 715 V 40 w(single)p 1369 715 V 41
w(cipher)p 1653 715 V 39 w(st)31 b(*)g Fe(s)12 b Fg(\()390
825 y Ff(algorithm)p FB(:)42 b(is)30 b(the)h(gn)m(utls)f(algorithm)i
(iden)m(ti)014er)390 960 y Ff(priorit)m(y)8 b FB(:)41
b(is)30 b(the)h(priorit)m(y)g(of)f(the)h(algorithm)390
1095 y Ff(v)m(ersion)p FB(:)41 b(should)30 b(b)s(e)f(set)i(to)g
Fs(GNUTLS_CRYPTO_API_VERSION)390 1230 y Ff(s)t FB(:)40
b(is)31 b(a)f(structure)g(holding)h(new)e(cipher's)i(data)390
1365 y(This)k(function)h(will)g(register)h(a)f(cipher)g(algorithm)h(to)
g(b)s(e)e(used)g(b)m(y)h(gn)m(utls.)58 b(An)m(y)36 b(algorithm)390
1475 y(registered)23 b(will)g(o)m(v)m(m(erride)h(the)f(included)f
(algorithms)i(and)e(b)m(y)g(con)m(v)m(en)m(tion)j(k)m(ernel)e(implemen)

m(ted)390 1584 y(algorithms)36 b(ha)m(v)m(e)g(priorit)m(y)g(of)f(90.)56
b(The)35 b(algorithm)h(with)f(the)g(lo)m(w)m(est)i(priorit)m(y)f(will)f
(b)s(e)g(used)390 1694 y(b)m(y)30 b(gn)m(utls.)390 1829
y(This)g(function)g(should)f(b)s(e)h(called)h(b)s(efore)f
Fs(gnutls_global_init(\))p FB(.)390 1964 y(F)-8 b(or)73
b(simplicit)m(y)h(y)m(ou)g(can)f(use)f(the)h(con)m(v)m(enience)i
Fs(gnutls_crypto_single_ci)o(pher)o(_)390 2074 y(register(\))28
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2544 37 5 v 55 w(crypto)p 885 2544 V 53 w(single)p 1239
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2741 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_crypto_single_)q
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4921 y Fu(gn)m(utls)p 483 4921 37 5 v 55 w(db)p 674 4921
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2401 y(This)30 b(function)g(m)m(ust)g(return)f(0)i(on)f(success.)390
2534 y(The)24 b(\014rst)f(argumen)m(t)i(to)g Fs(rem_func\(\))d
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3628 y(This)42 b(function)g(m)m(ust)h(return)e(a)i(gn)m(utls)p
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4158 y(This)26 b(function)g(will)h(return)e(the)i(bits)g(of)f(the)h
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4268 y(tication)40 b(with)e(the)h(p)s(eer.)64 b(Should)37
b(b)s(e)h(used)f(for)i(b)s(oth)e(anon)m(ymous)h(and)g(ephemeral)h
(Di\016e-)390 4377 y(Hellman.)50 b(Note)34 b(that)g(some)f(ciphers,)h
(lik)m(e)g(RSA)f(and)f(DSA)i(without)f(DHE,)h(do)s(es)e(not)i(use)f(a)
390 4487 y(Di\016e-Hellman)f(exc)m(hange,)g(and)e(then)g(this)h
(function)f(will)g(return)g(0.)390 4620 y Fn>Returns:)52
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b(w)m(as)e(done,)h(or)f(a)h(negativ)m(e)h(error)e(co)s(de)h(on)f
(failure.)150 4926 y Fu(gn)m(utls)p 483 4926 37 5 v 55
w(dh)p 674 4926 V 54 w(get)p 893 4926 V 54 w(pubk)m(ey)3350
5121 y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_dh_get_pubkey)f
Fg(\()p Ff(gn)m(utls)p 1732 5121 28 4 v 40 w(session)p
2041 5121 V 41 w(t)30 b Fe(session)12 b Ff(,)33 b(gn)m(utls)p
2821 5121 V 40 w(datum)p 3119 5121 V 40 w(t)565 5230
y(*)e Fe(raw_key)12 b Fg(\()390 5340 y Ff(session)p FB(:)41
b(is)30 b(a)h(gn)m(utls)g(session)p eop end
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b(function)g(will)h(return)f(the)h(p)s(eer's)f(public)g(k)m(ey)h(used)f
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(This)25 b(function)h(should)f(b)s(e)g(used)g(for)g(b)s(oth)g(anon)m
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b(The)30 b(output)g(parameters)h(m)m(ust)f(b)s(e)g(freed)g(with)g
Fs(gnutls_free\()\p FB(.)390 786 y Fn>Returns:)46 b
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b(is)f(returned,)g(otherwise)h(an)f(error)g(co)s(de)g(is)390
895 y(returned.)150 1093 y Fu(gn)m(utls)p 483 1093 37
5 v 55 w(dh)p 674 1093 V 54 w(get)p 893 1093 V 54 w(secret)p
1260 1093 V 54 w(bits)3350 1288 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_dh_get_secret_)q(bits)f Fg(\()p
Ff(gn)m(utls)p 1993 1288 28 4 v 41 w(session)p 2303 1288
V 40 w(t)31 b Fe(session)12 b Fg(\()390 1398 y Ff(session)p
FB(:)41 b(is)30 b(a)h(gn)m(utls)g(session)390 1532 y(This)e(function)g
(will)g(return)f(the)i(bits)f(used)g(in)g(the)g(last)i(Di\016e-Hellman)

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b(Should)29 b(b)s(e)g(used)h(for)g(b)s(oth)g(anon)m(ymous)g(and)g
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b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29 b FB(\(0\))34
b(is)f(returned,)g(otherwise)h(an)f(error)g(co)s(de)g(is)390
1885 y(returned.)150 2083 y Fu(gn)m(utls)p 483 2083 37
5 v 55 w(dh)p 674 2083 V 54 w(params)p 1116 2083 V 54
w(cp)m(y)3350 2278 y FB([F]-8 b(unction)]-3599 b Fh(int)53
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2278 28 4 v 40 w(dh)p 1874 2278 V 40 w(params)p 2203
2278 V 39 w(t)31 b Fe(dst)12 b Ff(,)565 2387 y(gn)m(utls)p
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V 39 w(t)31 b Fe(src)12 b Fg(\))390 2497 y Ff(dst)r FB(:)40
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(initialized.)390 2631 y Ff(src)6 b FB(:)40 b(Is)30 b(the)h(source)f
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(parameters)g(structure)f(from)f(source)i(to)g(destination.)390
2898 y Fn>Returns:)42 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27
b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)
390 3008 y(is)f(returned.)150 3206 y Fu(gn)m(utls)p 483
3206 37 5 v 55 w(dh)p 674 3206 V 54 w(params)p 1116 3206
V 54 w(deinit)3350 3401 y FB([F]-8 b(unction)]-3599 b
Fh(void)54 b(gnutls_dh_params_deinit)e Fg(\()p Ff(gn)m(utls)p
1941 3401 28 4 v 41 w(dh)p 2084 3401 V 39 w(params)p
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y Ff(dh)p 498 3511 V 39 w(params)t FB(:)40 b(Is)30 b(a)h(structure)f
(that)h(holds)f(the)g(prime)g(n)m(um)m(b)s(ers)390 3645
y(This)g(function)g(will)g(deinitialize)j(the)e(DH)f(parameters)h
(structure.)150 3842 y Fu(gn)m(utls)p 483 3842 37 5 v
55 w(dh)p 674 3842 V 54 w(params)p 1116 3842 V 54 w(exp)s(ort)p
1521 3842 V 55 w(pk)m(cs3)3350 4038 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_dh_params_expo)q(rt_p)q(kcs)q(3)e
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1035 4147 V 41 w(cert)p 1187 4147 V 40 w(fm)m(t)p 1363
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4257 y Fe(params_data_size)12 b Fg(\))390 4366 y Ff(params)t
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(parameters)h(to)h(a)f(PK)m(CS3)f(DHP)m(arams)i(structure.)390
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652 y(is)f(returned.)150 852 y Fu(gn)m(utls)p 483 852
37 5 v 55 w(dh)p 674 852 V 54 w(params)p 1116 852 V 54
w(exp)s(ort)p 1521 852 V 55 w(ra)m(w)3350 1048 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_dh_params_expo)q(rt_r)q(aw)f
Fg(\()p Ff(gn)m(utls)p 2098 1048 28 4 v 41 w(dh)p 2241
1048 V 39 w(params)p 2569 1048 V 39 w(t)31 b Fe(params)12
b Ff(,)565 1158 y(gn)m(utls)p 811 1158 V 41 w(datum)p
1110 1158 V 39 w(t)31 b(*)g Fe(prime)12 b Ff(,)31 b(gn)m(utls)p
1859 1158 V 41 w(datum)p 2158 1158 V 39 w(t)g(*)g Fe(generator)12
b Ff(,)32 b(unsigned)e(in)m(t)h(*)f Fe(bits)12 b Fg(\()390
1267 y Ff(params)t FB(:)40 b(Holds)31 b(the)f(DH)h(parameters)390
1402 y Ff(prime)5 b FB(:)40 b(will)31 b(hold)f(the)h(new)e(prime)390
1536 y Ff(generator)7 b FB(:)41 b(will)31 b(hold)f(the)h(new)f
(generator)390 1670 y Ff(bits)t FB(:)40 b(if)31 b(non)e(n)m(ull)i(will
f(hold)h(is)f(the)g(prime's)g(n)m(um)m(b)s(er)f(of)i(bits)390
1805 y(This)24 b(function)g(will)h(exp)s(ort)f(the)h(pair)g(of)f(prime)
g(and)g(generator)i(for)f(use)f(in)g(the)h(Di\016e-Hellman)390
1914 y(k)m(ey)h(exc)m(hange.)40 b(The)24 b(new)h(parameters)g(will)g(b)
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b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
2268 y(is)f(returned.)150 2467 y Fu(gn)m(utls)p 483 2467
37 5 v 55 w(dh)p 674 2467 V 54 w(params)p 1116 2467 V
54 w(generate2)3350 2664 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_dh_params_gene)q(rate)q(2)f Fg(\()p
Ff(gn)m(utls)p 2046 2664 28 4 v 40 w(dh)p 2188 2664 V
39 w(params)p 2516 2664 V 40 w(t)31 b Fe(params)12 b
Ff(,)565 2773 y(unsigned)29 b(in)m(t)i Fe(bits)12 b Fg(\()390
2883 y Ff(params)t FB(:)40 b(Is)30 b(the)h(structure)e(that)i(the)g(DH)

g(parameters)g(will)f(b)s(e)g(stored)390 3017 y Ff(bits)t
 FB(:)40 b(is)31 b(the)f(prime's)g(n)m(um)m(b)s(er)f(of)i(bits)390
 3152 y(This)j(function)h(will)g(generate)h(a)g(new)e(pair)h(of)g(prime)
 f(and)h(generator)h(for)e(use)h(in)g(the)g(Di\016e-)390
 3261 y(Hellman)24 b(k)m(ey)f(exc)m(hange.)40 b(The)23
 b(new)f(parameters)h(will)g(b)s(e)g(allo)s(cated)i(using)d
 Fs(gnutls_malloc\(\))390 3371 y FB(and)30 b(will)g(b)s(e)g(stored)h(in)
 f(the)g(appropriate)h(datum.)40 b(This)30 b(function)g(is)g(normally)h
 (slo)m(w.)390 3505 y(Note)36 b(that)f(the)g(bits)f(v)-5
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 (or)d(4096.)55 b(Also)35 b(note)390 3615 y(that)e(the)h(DH)f
 (parameters)g(are)h(only)f(useful)f(to)h(serv)m(ers.)49
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 3724 y(sen)m(t)e(b)m(y)f(the)h(serv)m(er,)g(it's)g(of)f(no)g(use)h(to)g
 (call)g(this)g(in)f(clien)m(t)i(side.)390 3859 y Fn>Returns:)42
 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
 3968 y(is)f(returned.)150 4167 y Fu(gn)m(utls)p 483 4167
 37 5 v 55 w(dh)p 674 4167 V 54 w(params)p 1116 4167 V
 54 w(imp)s(ort)p 1536 4167 V 55 w(pk)m(cs3)3350 4364
 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_dh_params_impo)q(rt_p)
 q(kcs)q(3)e Fg(\()p Ff(gn)m(utls)p 2202 4364 28 4 v 41
 w(dh)p 2345 4364 V 39 w(params)p 2673 4364 V 40 w(t)31
 b Fe(params)12 b Ff(,)565 4474 y(const)31 b(gn)m(utls)p
 1049 4474 V 40 w(datum)p 1347 4474 V 40 w(t)g(*)f Fe(pkcs3_params)12
 b Ff(,)34 b(gn)m(utls)p 2463 4474 V 41 w(x509)p 2687
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 V 41 w(t)c Fe(format)12 b Fg(\))390 4583 y Ff(params)t
 FB(:)40 b(A)31 b(structure)e(where)h(the)h(parameters)g(will)f(b)s(e)g
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 (structure)e(PEM)h(or)f(DER)h(enco)s(ded)390 4852 y Ff(format)r
 FB(:)41 b(the)31 b(format)f(of)h(params.)40 b(PEM)31
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 m(arams)h(found)e(in)g(a)h(PK)m(CS3)g(formatted)g(structure.)390
 5096 y(This)30 b(is)g(the)h(format)f(generated)i(b)m(y)e
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 5230 y(If)f(the)h(structure)g(is)g(PEM)f(enco)s(ded,)h(it)h(should)e
 (ha)m(v)m(e)i(a)f(header)f(of)h Fs(")p FB(BEGIN)h(DH)f(P)-8
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 Fn>Returns:)42 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27
 b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)
 390 408 y(is)f(returned.)150 612 y Fu(gn)m(utls)p 483
 612 37 5 v 55 w(dh)p 674 612 V 54 w(params)p 1116 612
 V 54 w(imp)s(ort)p 1536 612 V 55 w(ra)m(w)3350 813 y

FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_dh_params_impo)q(rt_r)q
(aw)f Fg(\()p Ff(gn)m(utls)p 2098 813 28 4 v 41 w(dh)p
2241 813 V 39 w(params)p 2569 813 V 39 w(t)31 b Fe(dh_params)12
b Ff(,)565 923 y(const)31 b(gn)m(utls)p 1049 923 V 40
w(datum)p 1347 923 V 40 w(t)g(*)f Fe(prime)12 b Ff(,)32
b(const)f(gn)m(utls)p 2335 923 V 40 w(datum)p 2633 923
V 40 w(t)g(*)f Fe(generator)12 b Fg(\))390 1033 y Ff(dh)p
498 1033 V 39 w(params)t FB(:)40 b(Is)30 b(a)h(structure)f(that)h(will)
f(hold)g(the)h(prime)f(n)m(um)m(b)s(ers)390 1172 y Ff(prime)5
b FB(:)40 b(holds)30 b(the)h(new)f(prime)390 1311 y Ff(generator)7
b FB(:)41 b(holds)30 b(the)h(new)f(generator)390 1450
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1559 y(k)m(ey)h(exc)m(hange.)40 b(The)22 b(new)h(parameters)h(should)e
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1808 y(is)f(returned.)150 2011 y Fu(gn)m(utls)p 483 2011
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2213 28 4 v 41 w(dh)p 1927 2213 V 39 w(params)p 2255
2213 V 39 w(t)31 b(*)g Fe(dh_params)12 b Fg(\))390 2322
y Ff(dh)p 498 2322 V 39 w(params)t FB(:)40 b(Is)30 b(a)h(structure)f
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2461 y(This)g(function)g(will)g(initialize)j(the)e(DH)g(parameters)f
(structure.)390 2600 y Fn>Returns:)42 b FB(On)30 b(success,)i
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(an)f(error)g(co)s(de)390 2710 y(is)f(returned.)150 2914
y Fu(gn)m(utls)p 483 2914 37 5 v 55 w(dh)p 674 2914 V
54 w(set)p 880 2914 V 54 w(prime)p 1244 2914 V 55 w(bits)3350
3115 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
(gnutls_dh_set_prime_bits)e Fg(\()p Ff(gn)m(utls)p 1993
3115 28 4 v 41 w(session)p 2303 3115 V 40 w(t)31 b Fe(session)12
b Ff(,)32 b(unsigned)565 3224 y(in)m(t)f Fe(bits)12 b
Fg(\))390 3334 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs
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3612 y(This)24 b(function)h(sets)g(the)g(n)m(um)m(b)s(er)f(of)h(bits,)h
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3831 y(minim)m(um)30 b(size)h(of)f(the)h(prim)f(that)h(will)f(b)s(e)g
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805 4532 V 54 w(is)p 941 4532 V 55 w(fatal)3350 4733
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_error_is_fatal)f
Fg(\()p Ff(in)m(t)31 b Fe(error)12 b Fg(\))390 4843 y
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(negativ)m(e)h(v)-5 b(alue)390 4982 y(If)22 b(a)g(Gn)m(uTLS)f(function)
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 3871 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
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5212 y Fn>Returns:40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
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(ded)g(data,)i(using)e(the)g(hex)f(enco)s(ding)h(used)f(b)m(y)390
1244 y(PSK)29 b(passw)m(ord)h(\014les.)390 1382 y(Note)i(that)f(hex)p
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1521 y Fn>Returns:40 b Fs(GNUTLS_E_SHORT_MEMORY_BUF)o(FER)24
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483 1833 37 5 v 55 w(hex)p 727 1833 V 54 w(enco)s(de)3350
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2669 y(This)i(function)h(will)g(con)m(v)m(ert)h(the)f(giv)m(en)h(data)g
(to)f(prin)m(table)g(data,)i(using)d(the)h(hex)g(enco)s(ding,)390
2778 y(as)e(used)e(in)h(the)h(PSK)e(passw)m(ord)h(\014les.)390
2917 y Fn>Returns:40 b Fs(GNUTLS_E_SHORT_MEMORY_BUF)o(FER)24
b FB(if)30 b(the)g(bu\013er)f(giv)m(en)i(is)g(not)f(long)h(enough,)f
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483 3229 37 5 v 55 w(init)3350 3430 y FB([F]-8 b(unction))-3599
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b(a)h(KX)f(name)390 5074 y(Con)m(v)m(ert)i(a)f(string)g(to)g(a)h
Fs(gnutls_kx_algorithm_t)25 b FB(v)-5 b(alue.)43 b(The)30
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(gnutls_kx_algorithm_t)59 b(gnutls_kx_get)49 b Fg(\()p
Ff(gn)m(utls)p 2307 1559 28 4 v 41 w(session)p 2617 1559
V 40 w(t)31 b Fe(session)12 b Fg(\))390 1668 y Ff(session)p
FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
1816 y(Get)31 b(curren)m(tly)g(used)e(k)m(ey)j(exc)m(hange)f
(algorithm.)390 1965 y Fn>Returns:)70 b FB(the)46 b(k)m(ey)g(exc)m
(hange)g(algorithm)h(used)d(in)h(the)g(last)h(handshak)m(e,)j(a)d

Fs(gnutls_kx_)390 2074 y(algorithm_t)27 b FB(v)-5 b(alue.)150
 2288 y Fu(gn)m(utls)p 483 2288 37 5 v 55 w(kx)p 668 2288
 V 53 w(list)3350 2498 y FB([F)d(unction)]-3599 b Fh(const)54
 b(gnutls_kx_algorithm_t)k(*)53 b(gnutls_kx_list)d Fg(\()30
 b Fe(void)12 b Fg(\()390 2608 y FB(Get)31 b(a)g(list)g(of)g(supp)s
 (orted)d(k)m(ey)j(exc)m(hange)h(algorithms.)390 2756
 y Fn>Returns:55 b FB(a)37 b(zero-terminated)i(list)g(of)e
 Fs(gnutls_kx_algorithm_t)32 b FB(in)m(egers)38 b(indicating)h(the)390
 2866 y(a)m(v)-5 b(ailable)33 b(k)m(ey)e(exc)m(hange)h(algorithms.)150
 3079 y Fu(gn)m(utls)p 483 3079 V 55 w(kx)p 668 3079 V
 53 w(set)p 873 3079 V 54 w(priorit)m(y)3350 3289 y FB([F]-8
 b(unction)]-3599 b Fh(int)53 b(gnutls_kx_set_priorit)q(y)e
 Fg(\()p Ff(gn)m(utls)p 1836 3289 28 4 v 41 w(session)p
 2146 3289 V 40 w(t)31 b Fe(session)12 b Ff(.)32 b(const)f(in)m(t)g(*)
 565 3399 y Fe(list)12 b Fg(\()390 3508 y Ff(session)p
 FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
 3657 y Ff(list)r FB(:)41 b(is)31 b(a)g(0)f(terminated)h(list)g(of)g(gn)
 m(utls)p 1789 3657 V 40 w(kx)p 1925 3657 V 40 w(algorithm)p
 2348 3657 V 41 w(t)g(elemen)m(ts.)390 3805 y(Sets)40
 b(the)g(priorit)m(y)h(on)f(the)g(k)m(ey)h(exc)m(hange)g(algorithms)g
 (supp)s(orted)d(b)m(y)i(gn)m(utls.)70 b(Priorit)m(y)41
 b(is)390 3915 y(higher)27 b(for)g(elemen)m(ts)h(sp)s(eci\014ed)f(b)s
 (efore)g(others.)39 b(After)28 b(sp)s(ecifying)f(the)g(algorithms)h(y)m
 (ou)g(w)m(an)m(t,)390 4024 y(y)m(ou)h(m)m(ust)f(app)s(end)f(a)i(0.)40
 b(Note)30 b(that)f(the)g(priorit)m(y)g(is)f(set)h(on)g(the)f(clien)m
 (t.)42 b(The)28 b(serv)m(er)h(do)s(es)f(not)390 4134
 y(use)i(the)h(algorithm's)g(priorit)m(y)g(except)g(for)f(disabling)h
 (algorithms)g(that)g(w)m(ere)g(not)f(sp)s(eci\014ed.)390
 4282 y Fn>Returns:40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
 b(success,)f(or)h(an)f(error)g(co)s(de.)150 4495 y Fu(gn)m(utls)p
 483 4495 37 5 v 55 w(mac)p 755 4495 V 53 w(get)p 973
 4495 V 54 w(id)3350 4706 y FB([F]-8 b(unction)]-3599
 b Fh(gnutls_mac_algorithm_t)59 b(gnutls_mac_get_id)51
 b Fg(\()p Ff(const)31 b(c)m(har)g(*)f Fe(name)12 b Fg(\()390
 4815 y Ff(name)5 b FB(:)41 b(is)30 b(a)h(MA)m(C)g(algorithm)g(name)390
 4964 y(Con)m(v)m(ert)j(a)f(string)g(to)h(a)g Fs(gnutls_mac_algorithm_t)
 27 b FB(v)-5 b(alue.)49 b(The)33 b(names)g(are)g(compared)g(in)390
 5073 y(a)e(case)g(insensitiv)m(e)h(w)m(a)m(y)-8 b(.)390
 5222 y Fn>Returns:51 b FB(a)36 b Fs(gnutls_mac_algorithm_t)29
 b FB(id)36 b(of)f(the)h(sp)s(eci\014ed)f(MA)m(C)h(algorithm)h(string,)g
 (or)390 5331 y Fs(GNUTLS_MAC_UNKNOWN)25 b FB(on)31 b(failures.)p
 eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(151)150 299 y
 Fu(gn)m(utls)p 483 299 37 5 v 55 w(mac)p 755 299 V 53
 w(get)p 973 299 V 54 w(k)m(ey)p 1210 299 V 53 w(size)3350
 503 y FB([F]-8 b(unction)]-3599 b Fh(size_t)54 b

(gnutls_mac_get_key_size)q(e)e Fg(\()p Ff(gn)m(utls)p
2046 503 28 4 v 40 w(mac)p 2247 503 V 41 w(algorithm)p
2671 503 V 41 w(t)565 613 y Fe(algorithm)12 b Fg(\()390
722 y Ff(algorithm)p FB(:)42 b(is)30 b(an)g(encryption)h(algorithm)390
864 y(Get)g(size)h(of)e(MA)m(C)h(k)m(ey)-8 b(.)390 1007
y Fn>Returns:37 b FB(length)23 b(\(in)f(b)m(ytes\))i(of)f(the)f(giv)m
(en)i(MA)m(C)f(k)m(ey)h(size,)h(or)e(0)g(if)f(the)h(giv)m(en)h(MA)m(C)f
(algorithm)390 1116 y(is)30 b(in)m(v)-5 b(alid.)150 1323
y Fu(gn)m(utls)p 483 1323 37 5 v 55 w(mac)p 755 1323
V 53 w(get)p 973 1323 V 54 w(name)3350 1527 y FB([F]d(unction))-3599
b Fh(const)54 b(char)f(*)g(gnutls_mac_get_name)e Fg(\()p
Ff(gn)m(utls)p 2150 1527 28 4 v 41 w(mac)p 2352 1527
V 41 w(algorithm)p 2776 1527 V 41 w(t)565 1637 y Fe(algorithm)12
b Fg(\()390 1747 y Ff(algorithm)p FB(:)42 b(is)30 b(a)h(MA)m(C)g
(algorithm)390 1889 y(Con)m(v)m(ert)g(a)g Fs(gnutls_mac_algorithm_t)24
b FB(v)-5 b(alue)31 b(to)g(a)g(string.)390 2031 y Fn>Returns:40
b FB(a)31 b(string)f(that)h(con)m(tains)h(the)f(name)f(of)h(the)f(sp)s
(eci\014ed)g(MA)m(C)h(algorithm,)g(or)g Fs(NULL)p FB(.)150
2238 y Fu(gn)m(utls)p 483 2238 37 5 v 55 w(mac)p 755
2238 V 53 w(get)3350 2442 y FB([F]-8 b(unction))-3599
b Fh(gnutls_mac_algorithm_t)59 b(gnutls_mac_get)50 b
Fg(\()p Ff(gn)m(utls)p 2412 2442 28 4 v 40 w(session)p
2721 2442 V 41 w(t)565 2552 y Fe(session)12 b Fg(\()390
2661 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 2803 y(Get)31 b(curren)m(tly)g(used)e(MA)m(C)i
(algorithm.)390 2945 y Fn>Returns:40 b FB(the)31 b(curren)m(tly)f
(used)g(mac)h(algorithm,)g(a)g Fs(gnutls_mac_algorithm_t)25
b FB(v)-5 b(alue.)150 3152 y Fu(gn)m(utls)p 483 3152
37 5 v 55 w(mac)p 755 3152 V 53 w(list)3350 3356 y FB([F]d(unction))
-3599 b Fh(const)54 b(gnutls_mac_algorithm_t)59 b(*)52
b(gnutls_mac_list)e Fg(\()31 b Fe(void)12 b Fg(\()390
3466 y FB(Get)25 b(a)g(list)f(of)h(hash)e(algorithms)i(for)f(use)g(as)g
(MA)m(Cs.)39 b(Note)26 b(that)f(not)f(necessarily)h(all)g(MA)m(Cs)g
(are)390 3576 y(supp)s(orted)f(in)h(TLS)f(cipher)h(suites.)39
b(F)-8 b(or)26 b(example,)i(MD2)e(is)g(not)f(supp)s(orted)f(as)i(a)f
(cipher)g(suite,)390 3685 y(but)30 b(is)g(supp)s(orted)f(for)h(other)g
(purp)s(oses)f(\(e.g.,)j(X.509)g(signature)f(v)m(eri\014cation)h(or)e
(similar).)390 3827 y Fn>Returns:57 b FB(Return)38
b(a)h(zero-terminated)h(list)g(of)f Fs(gnutls_mac_algorithm_t)32
b FB(in)m(teggers)40 b(indi-)390 3937 y(cating)32 b(the)e(a)m(v)-5
b(ailable)33 b(MA)m(Cs.)150 4144 y Fu(gn)m(utls)p 483
4144 V 55 w(mac)p 755 4144 V 53 w(set)p 960 4144 V 54
w(priorit)m(y)3350 4348 y FB([F]-8 b(unction))-3599 b
Fh(int)53 b(gnutls_mac_set_priori)q(ty)f Fg(\()p Ff(gn)m(utls)p
1889 4348 28 4 v 40 w(session)p 2198 4348 V 41 w(t)30
b Fe(session)12 b Ff(,)32 b(const)f(in)m(t)g(*)565 4458
y Fe(list)12 b Fg(\()390 4567 y Ff(session)p FB(:)41
b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390

4709 y Ff(list)r FB(:)41 b(is)31 b(a)g(0)f(terminated)h(list)g(of)g(gn)
m(utls)p 1789 4709 V 40 w(mac)p 1990 4709 V 41 w(algorithm)p
2414 4709 V 41 w(t)g(elemen)m(ts).390 4851 y(Sets)36
b(the)g(priorit)m(y)g(on)f(the)h(mac)g(algorithms)h(supp)s(orted)c(b)m
(y)j(gn)m(utls.)57 b(Priorit)m(y)36 b(is)g(higher)f(for)390
4961 y(elemen)m(ts)30 b(sp)s(eci\014ed)f(b)s(efore)g(others.)40
b(After)29 b(sp)s(ecifying)g(the)h(algorithms)g(y)m(ou)f(w)m(an)m(t,i
(y)m(ou)e(m)m(ust)390 5071 y(app)s(end)i(a)j(0.)48 b(Note)35
b(that)e(the)g(priorit)m(y)g(is)g(set)h(on)f(the)g(clien)m(t.)50
b(The)32 b(serv)m(er)h(do)s(es)g(not)g(use)g(the)390
5180 y(algorithm's)f(priorit)m(y)e(except)i(for)e(disabling)g
(algorithms)h(that)g(w)m(ere)g(not)g(sp)s(eci\014ed.)390
5322 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(152)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(mallo)s(c)3350 504
y FB([F]-8 b(unction)]-3599 b Fh(void)54 b(*)e(gnutls_malloc)e
Fg(\()p Ff(size)p 1424 504 28 4 v 41 w(t)30 b Fe(s)12
b Fg(\))390 614 y FB(This)42 b(function)h(will)g(allo)s(cate)i('s')e(b
m(ytes)h(data,)j(and)42 b(return)g(a)h(p)s(oin)m(ter)g(to)g(memory)-8
b(.)79 b(This)390 723 y(function)30 b(is)g(supp)s(osed)f(to)i(b)s(e)f
(used)f(b)m(y)i(callbac)m(ks.)390 866 y(The)20 b(allo)s(cation)i
(function)f(used)e(is)h(the)h(one)g(set)g(b)m(y)f Fs
(gnutls_global_set_mem_f)o(unct)o(ions)o(\())p FB(.)150
1074 y Fu(gn)m(utls)p 483 1074 37 5 v 55 w(op)s(enpgp)p
991 1074 V 55 w(send)p 1286 1074 V 55 w(cert)3350 1279
y FB([F]-8 b(unction)]-3599 b Fh(void)54 b(gnutls_openpgp_send_cert)e
Fg(\()p Ff(gn)m(utls)p 1993 1279 28 4 v 41 w(session)p
2303 1279 V 40 w(t)31 b Fe(session)12 b Ff(,)565 1389
y(gn)m(utls)p 811 1389 V 41 w(op)s(enpgp)p 1189 1389
V 38 w(cert)p 1338 1389 V 41 w(status)p 1617 1389 V 40
w(t)31 b Fe(status)12 b Fg(\))390 1499 y Ff(session)p
FB(:)41 b(is)30 b(a)h(p)s(oin)m(ter)f(to)i(a)e Fs(gnutls_session_t)c
FB(structure.)390 1642 y Ff(status)t FB(:)36 b(is)20
b(one)h(of)f(GNUTLS)p 1411 1642 V 40 w(OPENPGP)p 1909
1642 V 39 w(CER)-8 b(T,)20 b(or)h(GNUTLS)p 2729 1642
V 39 w(OPENPGP)p 3226 1642 V 40 w(CER)-8 b(T)p 3519 1642
V 40 w(FINGERPRINT)390 1785 y(This)34 b(function)f(will)i(order)f(gn)m
(utls)h(to)g(send)e(the)i(k)m(ey)g(\014ngerprin)m(t)e(instead)i(of)f
(the)h(k)m(ey)g(in)f(the)390 1894 y(initial)i(handshak)m(e)e(pro)s
(cedure.)51 b(This)34 b(should)g(b)s(e)f(used)h(with)g(are)h(and)f
(only)h(when)e(there)i(is)390 2004 y(indication)c(or)g(kno)m(wledge)g
(that)g(the)g(serv)m(er)f(can)h(obtain)g(the)f(clien)m(t's)i(k)m(ey)-8
b(.)150 2211 y Fu(gn)m(utls)p 483 2211 37 5 v 55 w(opr\014)p
785 2211 V 54 w(enable)p 1181 2211 V 55 w(clien)m(t)3350
2417 y FB([F]g(unction)]-3599 b Fh(void)54 b(gnutls_oprfi_enable_clie)q

(nt)e Fg(\()p Ff(gn)m(utls)p 2098 2417 28 4 v 41 w(session)p
2408 2417 V 40 w(t)30 b Fe(session)12 b Ff(,)33 b(size)p
3088 2417 V 41 w(t)565 2526 y Fe(len)12 b Ff(,)31 b(unsigned)e(c)m(har
i(*)g Fe(data)12 b Fg(\()390 2636 y Ff(session)p FB(:)41
b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
2779 y Ff(len)p FB(:)41 b(length)31 b(of)f(Opaque)g(PRF)g(data)h(to)h
(use)e(in)g(clien)m(t.)390 2922 y Ff(data)p FB(:)41 b(Opaque)30
b(PRF)h(data)g(to)g(use)f(in)g(clien)m(t.)390 3065 y(Request)42
b(that)h(the)f(clien)m(t)h(should)e(attempt)i(to)g(negotiate)h(the)e
(Opaque)g(PRF)g(Input)e(TLS)390 3175 y(extension,)31
b(using)f(the)h(giv)m(en)g(data)g(as)g(the)f(clien)m(t's)i(Opaque)e
(PRF)h(input.)390 3318 y(The)i(data)h(is)f(copied)h(in)m(to)h(the)e
(session)h(con)m(text)h(after)f(this)f(call,)j(so)e(y)m(ou)f(ma)m(y)h
(de-allocat)e)i(it)390 3427 y(immediately)c(after)f(calling)g(this)g
(function.)150 3635 y Fu(gn)m(utls)p 483 3635 37 5 v
55 w(opr\014)p 785 3635 V 54 w(enable)p 1181 3635 V 55
w(serv)m(er)3350 3840 y FB([F]-8 b(unction)]-3599 b Fh(void)54
b(gnutls_oprfi_enable_serv)q(er)e Fg(\()p Ff(gn)m(utls)p
2098 3840 28 4 v 41 w(session)p 2408 3840 V 40 w(t)30
b Fe(session)12 b Ff(,)565 3950 y(gn)m(utls)p 811 3950
V 41 w(opr\014)p 1035 3950 V 39 w(callbac)m(k)p 1390
3950 V 42 w(func)29 b Fe(cb)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(userdata)12 b Fg(\()390 4059 y Ff(session)p FB(:)41
b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
4202 y Ff(cb)r FB(:)41 b(function)30 b(p)s(oin)m(ter)g(to)h(Opaque)f
(PRF)g(extension)h(serv)m(er)g(callbac)m(k.)390 4345
y Ff(userdata)p FB(:)41 b(ho)s(ok)30 b(passed)g(to)h(callbac)m(k)i
(function)d(for)g(passing)g(application)i(state.)390
4488 y(Request)27 b(that)h(the)f(serv)m(er)g(should)f(attempt)i(to)g
(accept)g(the)f(Opaque)g(PRF)g(Input)e(TLS)h(exten-)390
4598 y(sion.)57 b(If)35 b(the)h(clien)m(t)i(requests)d(the)h
(extension,)i(the)e(pro)m(vided)g(callbac)m(k)i Fs(cb)d
FB(will)h(b)s(e)f(in)m(v)m(ok)m(ed.)390 4708 y(The)30
b(callbac)m(k)i(m)m(ust)f(ha)m(v)m(e)g(the)g(follo)m(wing)h(protot)m
(yp)s(e:)390 4851 y(in)m(t)e(callbac)m(k)h(\(gn)m(utls)p
1156 4851 V 41 w(session)p 1466 4851 V 40 w(t)f(session,)g(v)m(oid)g
(*userdata,)g(size)p 2671 4851 V 41 w(t)g(opr\014)p 2960
4851 V 39 w(len,)g(const)g(unsigned)390 4960 y(c)m(har)h(*in)p
717 4960 V 40 w(opr\014,)f(unsigned)f(c)m(har)i(*out)p
1750 4960 V 40 w(opr\014;)390 5103 y(The)23 b(callbac)m(k)i(can)f
(insp)sect)f(the)g(clien)m(t-pro)m(vided)i(data)f(in)f(the)g(input)f
(parameters,)k(and)c(sp)s(ecify)390 5213 y(its)30 b(o)m(w)n)f(opaque)g
(prf)g(input)f(data)i(in)f(the)g(output)g(v)-5 b(ariable.)41
b(The)29 b(function)g(m)m(ust)g(return)f(0)i(on)390 5322
y(success,)h(otherwise)g(the)f(handshak)m(e)g(will)h(b)s(e)f(ab)s
(orted.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(153)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(p)s(em)p 767 299 V
54 w(base64)p 1175 299 V 55 w(deco)s(de)p 1597 299 V
55 w(allo)s(c)3350 510 y FB([F]-8 b(unction))-3599 b
Fh(int)53 b(gnutls_pem_base64_dec)q(ode_)q(all)q(oc)f
Fg(\()p Ff(const)31 b(c)m(har)g(*)g Fe(header)12 b Ff(,)31
b(const)565 619 y(gn)m(utls)p 811 619 28 4 v 41 w(datum)p
1110 619 V 39 w(t)g(*)g Fe(b64_data)12 b Ff(,)32 b(gn)m(utls)p
2016 619 V 40 w(datum)p 2314 619 V 40 w(t)f(*)f Fe(result)12
b Fg(\()390 729 y Ff(header)7 b FB(:)40 b(The)30 b(PEM)g(header)g
(eg.)42 b(CER)-8 b(TIFICA)g(TE\))390 877 y Ff(b64)p
537 877 V 40 w(data)p FB(:)42 b(con)m(tains)31 b(the)g(enco)s(ded)f
(data)390 1026 y Ff(result)r FB(:)41 b(the)30 b(place)i(where)d(deco)s
(ded)h(data)h(lie)390 1175 y(This)23 b(function)g(will)h(deco)s(de)f
(the)h(giv)m(en)g(enco)s(ded)g(data.)39 b(The)23 b(deco)s(ded)g(data)h
(will)g(b)s(e)f(allo)s(cated,)390 1284 y(and)37 b(stored)h(in)m(to)g
(result.)62 b(If)37 b(the)h(header)f(giv)m(en)i(is)e(non)g(n)m(ull)h
(this)f(function)g(will)h(searc)m(h)g(for)390 1394 y
Fs(")p FB(|{BEGIN)h(header)p Fs(")f FB(and)g(deco)s(de)g(only)h(this)f
(part.)65 b(Otherwise)38 b(it)h(will)g(deco)s(de)f(the)h(\014rst)390
1503 y(PEM)30 b(pac)m(k)m(et)j(found.)390 1652 y(Y)-8
b(ou)31 b(should)e(use)h Fs(gnutls_free(\))d FB(to)k(free)g(the)f
(returned)f(data.)390 1800 y Fn>Returns:)46 b FB(On)32
b(success,)i Fs(GNUTLS_E_SUCCESS)29 b FB(\(0\))34 b(is)f(returned,)g
(otherwise)h(an)f(error)g(co)s(de)g(is)390 1910 y(returned.)150
2123 y Fu(gn)m(utls)p 483 2123 37 5 v 55 w(p)s(em)p 767
2123 V 54 w(base64)p 1175 2123 V 55 w(deco)s(de)3350
2334 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_pem_base64_dec)q
(ode)f Fg(\()p Ff(const)31 b(c)m(har)g(*)g Fe(header)12
b Ff(,)32 b(const)565 2444 y(gn)m(utls)p 811 2444 28
4 v 41 w(datum)p 1110 2444 V 39 w(t)f(*)f Fe(b64_data)12
b Ff(,)33 b(unsigned)c(c)m(har)h(*)h Fe(result)12 b Ff(,)32
b(size)p 2952 2444 V 41 w(t)e(*)h Fe(result_size)12 b
Fg(\()390 2553 y Ff(header)7 b FB(:)40 b(A)31 b(n)m(ull)f(terminated)h
(string)f(with)g(the)h(PEM)f(header)g(eg.)42 b(CER)-8
b(TIFICA)g(TE\))390 2702 y Ff(b64)p 537 2702 V 40 w(data)p
FB(:)42 b(con)m(tain)32 b(the)e(enco)s(ded)g(data)390
2851 y Ff(result)r FB(:)41 b(the)30 b(place)i(where)d(deco)s(ded)h
(data)h(will)g(b)s(e)f(copied)390 2999 y Ff(result)p
619 2999 V 40 w(size)5 b FB(:)42 b(holds)30 b(the)g(size)h(of)g(the)f
(result)390 3148 y(This)d(function)h(will)g(deco)s(de)g(the)g(giv)m(en
h(enco)s(ded)e(data.)41 b(If)27 b(the)h(header)g(giv)m(en)h(is)f(non)f
(n)m(ull)h(this)390 3257 y(function)h(will)g(searc)m(h)h(for)f
Fs(")p FB(|{BEGIN)h(header)p Fs(")e FB(and)h(deco)s(de)g(only)g(this)g
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y Fu(gn)m(utls)p 483 3838 37 5 v 55 w(p)s(em)p 767 3838
V 54 w(base64)p 1175 3838 V 55 w(enco)s(de)p 1597 3838
V 55 w(allo)s(c)3350 4049 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_pem_base64_enc)q(ode_)q(all)q(oc)f
Fg(\()p Ff(const)31 b(c)m(har)g(*)g Fe(msg)12 b Ff(,)31
b(const)565 4159 y(gn)m(utls)p 811 4159 28 4 v 41 w(datum)p
1110 4159 V 39 w(t)g(*)g Fe(data)12 b Ff(,)31 b(gn)m(utls)p
1807 4159 V 40 w(datum)p 2105 4159 V 40 w(t)f(*)h Fe(result)12
b Fg(\()390 4268 y Ff(msg)c FB(:)41 b(is)30 b(a)h(message)g(to)g(b)s(e)
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FB(:)41 b(con)m(tains)32 b(the)f(ra)m(w)f(data)390 4566
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g(base64)i(enco)s(ding.)390 4824 y(This)k(is)i(the)f(enco)s(ding)g
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(cate)h(the)f(required)390 4933 y(memory)f(to)h(hold)f(the)h(enco)s
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5230 y Fn>Returns:)46 b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29
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b(unction)]-3599 b Fh(int)53 b(gnutls_pem_base64_enc)q(ode)f
Fg(\()p Ff(const)31 b(c)m(har)g(*)g Fe(msg)12 b Ff(,)31
b(const)565 632 y(gn)m(utls)p 811 632 28 4 v 41 w(datum)p
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Fe(result_size)12 b Fg(\()390 742 y Ff(msg)c FB(:)41
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903 y Ff(data)p FB(:)41 b(con)m(tain)32 b(the)f(ra)m(w)f(data)390
1064 y Ff(result)r FB(:)41 b(the)30 b(place)i(where)d(base64)j(data)f
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2264 y Fu(gn)m(utls)p 483 2264 37 5 v 55 w(p)s(error)3350
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3427 V 39 w(algorithm)p 1408 3427 V 41 w(t)31 b Fe(algorithm)12
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5340 y Fn(Since:)41 b FB(2.6.0)p eop end
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1780 y FB(Get)31 b(a)g(list)g(of)g(supp)s(orted)d(public)i(k)m(ey)h
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2408 2585 V 41 w(t)e Fe(label_size)12 b Ff(),565 2695
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(the)g(ciphers,)i(k)m(ey)f(exc)m(hange)g(metho)s(ds,)h(mac)s(e)and)g
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3989 y Fe(version)12 b Fg(\)390 4098 y Ff(v)m(ersion)p
FB(:)41 b(is)31 b(a)f(\(gn)m(utls))i(v)m(ersion)f(n)m(um)m(b)s(er)390
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b(This)26 b(function)g(actually)390 1917 y(enables)31
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(ersions)g(alw)m(a)m(ys)h(ha)m(v)m(e)g(highest)e(priorit)m(y)-8
b(.)390 2064 y Fn>Returns:):40 b Fs(GNUTLS_E_SUCCESS)26
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2275 y Fu(gn)m(utls)p 483 2275 37 5 v 55 w(psk)p 719
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1529 2275 V 54 w(creden)m(tials)3350 2485 y FB([F]-8
b(unction))-3599 b Fh(int)53 b(gnutls_psk_allocate_c)q(lien)q(t_c)q
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2594 28 4 v 41 w(psk)p 1022 2594 V 39 w(clien)m(t)p 1274
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Fe(sc)12 b Fg(\))390 2704 y Ff(sc)6 b FB(:)40 b(is)31
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g(enough)f(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f
(function)g(is)390 2960 y(pro)m(vided)f(in)g(order)g(to)h(allo)s(cate)i
(it.)390 3107 y Fn>Returns:):40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)150
3319 y Fu(gn)m(utls)p 483 3319 37 5 v 55 w(psk)p 719
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b(unction))-3599 b Fh(int)53 b(gnutls_psk_allocate_s)q(erve)q(r_c)q
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(ls_t)24 b FB(structure.)390 3894 y(This)31 b(structure)g(is)h(complex)
g(enough)f(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f
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(it.)390 4150 y Fn>Returns:40 b Fs(GNUTLS_E_SUCCESS)26
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4790 y Ff(session)p FB(:)41 b(is)30 b(a)h(gn)m(utls)g(session)390
4937 y(The)j(PSK)g(iden)m(tit)m(y)i(hin)m(t)e(ma)m(y)i(giv)m(e)g(the)f
(clien)m(t)h(help)e(in)g(deciding)h(whic)m(h)g(username)f(to)h(use.)390
5046 y(This)30 b(should)f(only)h(b)s(e)g(called)i(in)e(case)h(of)g(PSK)
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5193 y Fn>Returns:40 b FB(the)31 b(iden)m(tit)m(y)h(hin)m(t)e(of)h
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612 V 39 w(clien)m(t)p 1274 612 V 42 w(creden)m(tials)p
1737 612 V 41 w(t)31 b Fe(sc)12 b Fg(\()390 722 y Ff(sc)6
b FB(:)40 b(is)31 b(a)g Fs(gnutls_psk_client_creden)o(anti)o(als_)o(t)24
b FB(structure.)390 863 y(This)31 b(structure)g(is)h(complex)g(enough)f
(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f(function)g
(is)390 973 y(pro)m(vided)f(in)g(order)g(to)h(free)g(\(deallo)s(cate\))
i(it.)150 1179 y Fu(gn)m(utls)p 483 1179 37 5 v 55 w(psk)p
719 1179 V 54 w(free)p 972 1179 V 55 w(serv)m(er)p 1349
1179 V 54 w(creden)m(tials)3350 1382 y FB([F]-8 b(unction])-3599
b Fh(void)54 b(gnutls_psk_free_server_c)q(red)q(ent)q(ial)q(s)565
1492 y Fg(\()p Ff(gn)m(utls)p 846 1492 28 4 v 41 w(psk)p
1022 1492 V 39 w(serv)m(er)p 1294 1492 V 41 w(creden)m(tials)p
1756 1492 V 41 w(t)31 b Fe(sc)12 b Fg(\()390 1601 y Ff(sc)6
b FB(:)40 b(is)31 b(a)g Fs(gnutls_psk_server_creden)o(anti)o(als_)o(t)24
b FB(structure.)390 1743 y(This)31 b(structure)g(is)h(complex)g(enough)
f(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f(function)g
(is)390 1852 y(pro)m(vided)f(in)g(order)g(to)h(free)g(\(deallo)s
(cate\))i(it.)150 2059 y Fu(gn)m(utls)p 483 2059 37 5
v 55 w(psk)p 719 2059 V 54 w(netconf)p 1166 2059 V 54
w(deriv)m(e)p 1546 2059 V 54 w(k)m(ey)3350 2262 y FB([F]-8

b(unction)]-3599 b Fh(int)53 b(gnutls_psk_netconf_de)q(rive)q(_ke)q(y)e
Fg(\()p Ff(const)32 b(c)m(har)e(*)h Fe(password)12 b
Ff(,)33 b(const)565 2372 y(c)m(har)e(*)g Fe(psk_identity)12
b Ff(,)33 b(const)e(c)m(har)g(*)g Fe(psk_identity_hint)12
b Ff(,)35 b(gn)m(utls)p 3251 2372 28 4 v 40 w(datum)p
3549 2372 V 40 w(t)c(*)565 2481 y Fe(output_key)12 b
Fg(\()390 2591 y Ff(passw)m(ord)t FB(:)40 b(zero)31 b(terminated)g
(string)f(con)m(taining)i(passw)m(ord.)390 2732 y Ff(psk)p
531 2732 V 39 w(iden)m(tit)m(y)8 b FB(:)42 b(zero)32
b(terminated)e(string)h(with)f(PSK)f(iden)m(tit)m(y)-8
b(.)390 2874 y Ff(psk)p 531 2874 V 39 w(iden)m(tit)m(y)p
874 2874 V 42 w(hin)m(t)r FB(:)41 b(zero)31 b(terminated)g(string)f
(with)g(PSK)f(iden)m(tit)m(y)j(hin)m(t.)390 3015 y Ff(output)p
664 3015 V 40 w(k)m(ey)8 b FB(:)41 b(output)30 b(v)-5
b(ariable,)31 b(con)m(tains)h(newly)e(allo)s(cated)i(*data)g(p)s(oin)m
(ter.)390 3156 y(This)g(function)g(will)h(deriv)m(e)g(a)g(PSK)f(k)m(ey)
i(from)e(a)h(passw)m(ord.)g(for)f(use)g(with)h(the)f(Netconf)i(pro-)390
3266 y(to)s(col.)390 3407 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)390
3549 y Fn(Since:)41 b FB(2.4.0)150 3755 y Fu(gn)m(utls)p
483 3755 37 5 v 55 w(psk)p 719 3755 V 54 w(serv)m(er)p
1095 3755 V 54 w(get)p 1314 3755 V 54 w(username)3350
3958 y FB([F]-8 b(unction)]-3599 b Fh(const)54 b(char)f(*)g
(gnutls_psk_server_get_)q(use)q(rnam)q(e)e Fg(\()p Ff(gn)m(utls)p
2725 3958 28 4 v 41 w(session)p 3035 3958 V 40 w(t)565
4068 y Fe(session)12 b Fg(\()390 4177 y Ff(session)p
FB(:)41 b(is)30 b(a)h(gn)m(utls)g(session)390 4319 y(This)f(should)f
(only)h(b)s(e)g(called)i(in)e(case)h(of)g(PSK)e(authen)m(tication)k
(and)c(in)i(case)g(of)f(a)h(serv)m(er.)390 4460 y Fn>Returns:)40
b FB(the)31 b(username)f(of)g(the)h(p)s(eer,)f(or)g Fs(NULL)f
FB(in)h(case)i(of)e(an)h(error.)150 4666 y Fu(gn)m(utls)p
483 4666 37 5 v 55 w(psk)p 719 4666 V 54 w(set)p 925
4666 V 54 w(clien)m(t)p 1271 4666 V 53 w(creden)m(tials)p
1898 4666 V 54 w(function)3350 4870 y FB([F]-8 b(unction)]-3599
b Fh(void)54 b(gnutls_psk_set_client_cr)q(ede)q(ntl)q(als)q(_fun)q(cti)
q(on)565 4979 y Fg(\()p Ff(gn)m(utls)p 846 4979 28 4
v 41 w(psk)p 1022 4979 V 39 w(clien)m(t)p 1274 4979 V
42 w(creden)m(tials)p 1737 4979 V 41 w(t)31 b Fe(cred)12
b Ff(,)31 b(gn)m(utls)p 2360 4979 V 41 w(psk)p 2536 4979
V 39 w(clien)m(t)p 2788 4979 V 42 w(creden)m(tials)p
3251 4979 V 41 w(function)f(*)565 5089 y Fe(func)12 b
Fg(\()390 5199 y Ff(cred)t FB(:)40 b(is)31 b(a)f Fs
(gnutls_psk_server_credent)o(ials)o(_t)24 b FB(structure.)390
5340 y Ff(func)6 b FB(:)39 b(is)31 b(the)f(callbac)m(k)j(function)p
eop end
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b(function)h(can)g(b)s(e)f(used)g(to)i(set)f(a)g(callbac)m(k)i(to)f
(retriev)m(e)g(the)f(username)g(and)f(pass-)390 408 y(w)m(ord)f(for)f
(clien)m(t)j(PSK)d(authen)m(tication.)89 b(The)46 b(callbac)m(k's)i
(function)e(form)f(is:)72 b(in)m(t)47 b(\(*call-)390
518 y(bac)m(k)\(gn)m(utls)p 887 518 28 4 v 42 w(session)p
1198 518 V 40 w(t,)31 b(c)m(har**)h(username,)e(gn)m(utls)p
2290 518 V 40 w(datum)p 2588 518 V 40 w(t*)h(k)m(ey\);)390
672 y(The)h Fs(username)e FB(and)h Fs(key)p FB(-)p Fs(>)p
FB(data)h(m)m(ust)g(b)s(e)g(allo)s(cated)i(using)d Fs
(gnutls_malloc\()\p FB(.)42 b Fs(username)390 782 y
FB(should)30 b(b)s(e)h(ASCII)s(I)f(strings)h(or)h(UTF-8)g(strings)f
(prepared)f(using)h(the)h Fs("")p FB(SASLprep)p Fs("")d
FB(pro\014le)i(of)390 892 y Fs("")p FB(stringprep)p Fs("")p
FB(.)390 1046 y(The)f(callbac)m(k)i(function)e(will)h(b)s(e)f(called)h
(once)h(p)s(er)d(handshak)m(e.)390 1200 y(The)h(callbac)m(k)i(function)
e(should)g(return)f(0)i(on)f(success.)41 b(-1)31 b(indicates)g(an)g
(error.)150 1420 y Fu(gn)m(utls)p 483 1420 37 5 v 55
w(psk)p 719 1420 V 54 w(set)p 925 1420 V 54 w(clien)m(t)p
1271 1420 V 53 w(creden)m(tials)3350 1636 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_psk_set_client)q(_cre)q(den)q
(tia)q(ls)565 1746 y Fg\()\p Ff(gn)m(utls)p 846 1746
28 4 v 41 w(psk)p 1022 1746 V 39 w(clien)m(t)p 1274 1746
V 42 w(creden)m(tials)p 1737 1746 V 41 w(t)31 b Fe(res)12
b Ff(,)31 b(const)g(c)m(har)g(*)f Fe(username)12 b Ff(,)33
b(const)565 1855 y(gn)m(utls)p 811 1855 V 41 w(datum)p
1110 1855 V 39 w(t)e(*)g Fe(key)12 b Ff(,)31 b(gn)m(utls)p
1755 1855 V 40 w(psk)p 1930 1855 V 39 w(k)m(ey)p 2102
1855 V 41 w(\015ags)g Fe(flags)12 b Fg\()\p 390 1965 y
Ff(res)t FB(:)40 b(is)31 b(a)f Fs(gnutls_psk_client_credenti)o(als_)o
(t)24 b FB(structure.)390 2119 y Ff(username)5 b FB(:)40
b(is)31 b(the)f(user's)g(zero-terminated)i(userid)390
2274 y Ff(k)m(ey)8 b FB(:)41 b(is)31 b(the)f(user's)g(k)m(ey)390
2428 y(This)38 b(function)g(sets)g(the)h(username)e(and)h(passw)m(ord.)
i(in)e(a)h(gn)m(utls)p 2789 2428 V 40 w(psk)p 2964 2428
V 40 w(clien)m(t)p 3217 2428 V 41 w(creden)m(tials)p
3679 2428 V 42 w(t)390 2538 y(structure.)i(Those)30 b(will)h(b)s(e)f
(used)f(in)i(PSK)e(authen)m(tication.)43 b Fs(username)29
b FB(should)g(b)s(e)h(an)g(ASCII)s(I)390 2647 y(string)f(or)h(UTF-8)g
(strings)f(prepared)g(using)g(the)g Fs("")p FB(SASLprep)p
Fs("")e FB(pro\014le)i(of)h Fs("")p FB(stringprep)p Fs("")p
FB(.)38 b(The)390 2757 y(k)m(ey)31 b(can)g(b)s(e)f(either)g(in)g(ra)m
(w)h(b)m(yte)g(format)g(or)f(in)g(Hex)h(\(not)g(with)f(the)h('0x')g
(pre\014x\).)390 2911 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)150
3131 y Fu(gn)m(utls)p 483 3131 37 5 v 55 w(psk)p 719
3131 V 54 w(set)p 925 3131 V 54 w(params)p 1367 3131
V 54 w(function)3350 3347 y FB([F]-8 b(unction)]-3599
b Fh(void)54 b(gnutls_psk_set_params_fu)q(nct)q(ion)565

3457 y Fg(\()p Ff(gn)m(utls)p 846 3457 28 4 v 41 w(psk)p
1022 3457 V 39 w(serv)m(er)p 1294 3457 V 41 w(creden)m(tials)p
1756 3457 V 41 w(t)31 b Fe(res)12 b Ff(,)31 b(gn)m(utls)p
2327 3457 V 40 w(params)p 2656 3457 V 40 w(function)f(*)h
Fe(func)12 b Fg(\()390 3566 y Ff(res)t FB(:)40 b(is)31
b(a)f(gn)m(utls)p 984 3566 V 41 w(psk)p 1160 3566 V 39
w(serv)m(er)p 1432 3566 V 41 w(creden)m(tials)p 1894
3566 V 41 w(t)h(structure)390 3721 y Ff(func)6 b FB(:)39
b(is)31 b(the)f(function)g(to)i(b)s(e)d(called)390 3875
y(This)k(function)h(will)g(set)g(a)h(callbac)m(k)h(in)d(order)h(for)f
(the)h(serv)m(er)g(to)h(get)g(the)f(Di\016e-Hellman)i(or)390
3985 y(RSA)30 b(parameters)h(for)f(psk)f(authen)m(tication.)43
b(The)30 b(callbac)m(k)j(should)c(return)g(zero)i(on)g(success.)150
4204 y Fu(gn)m(utls)p 483 4204 37 5 v 55 w(psk)p 719
4204 V 54 w(set)p 925 4204 V 54 w(serv)m(er)p 1301 4204
V 54 w(creden)m(tials)p 1929 4204 V 54 w(\014le)3350
4421 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_psk_set_server)q
(_cre)q(den)q(tia)q(ls_)q(file)565 4530 y Fg(\()p Ff(gn)m(utls)p
846 4530 28 4 v 41 w(psk)p 1022 4530 V 39 w(serv)m(er)p
1294 4530 V 41 w(creden)m(tials)p 1756 4530 V 41 w(t)31
b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)f(*)h Fe(password_file)12
b Fg(\()390 4640 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs
(gnutls_psk_server_credenti)o(als_)o(t)24 b FB(structure.)390
4794 y Ff(passw)m(ord)p 759 4794 V 39 w(\014le)5 b FB(:)41
b(is)31 b(the)f(PSK)g(passw)m(ord)f(\014le)i(\(passwd.psk))390
4949 y(This)c(function)h(sets)g(the)g(passw)m(ord)f(\014le,)i(in)e(a)i
Fs(gnutls_psk_server_credenti)o(als_)o(t)22 b FB(struc-)390
5058 y(ture.)40 b(This)30 b(passw)m(ord)f(\014le)h(holds)g(usernames)f
(and)g(k)m(ey)i(and)e(will)i(b)s(e)e(used)g(for)h(PSK)f(authen-)390
5168 y(tication.)390 5322 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(162)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(psk)p 719 299 V 54
w(set)p 925 299 V 54 w(serv)m(er)p 1301 299 V 54 w(creden)m(tials)p
1929 299 V 54 w(function)3350 490 y FB([F]-8 b(unction])-3599
b Fh(void)54 b(gnutls_psk_set_server_cr)q(ede)q(anti)q(als)q(_fun)q(cti)
q(on)565 599 y Fg(\()p Ff(gn)m(utls)p 846 599 28 4 v
41 w(psk)p 1022 599 V 39 w(serv)m(er)p 1294 599 V 41
w(creden)m(tials)p 1756 599 V 41 w(t)31 b Fe(cred)12
b Ff(,)31 b(gn)m(utls)p 2379 599 V 40 w(psk)p 2554 599
V 40 w(serv)m(er)p 2827 599 V 40 w(creden)m(tials)p 3288
599 V 42 w(function)f(*)565 709 y Fe(func)12 b Fg(\()390
818 y Ff(cred)t FB(:)40 b(is)31 b(a)f Fs(gnutls_psk_server_credenti)o
(ials)o(_t)24 b FB(structure.)390 950 y Ff(func)6 b FB(:)39
b(is)31 b(the)f(callbac)m(k)j(function)390 1081 y(This)23

b(function)h(can)h(b)s(e)f(used)f(to)i(set)g(a)g(callbac)m(k)h(to)f
(retriev)m(e)h(the)e(user's)g(PSK)f(creden)m(tials.)40
b(The)390 1191 y(callbac)m(k's)h(function)e(form)g(is:)58
b(in)m(t)40 b(\(*callbac)m(k)\)(gn)m(utls)p 2401 1191
V 44 w(session)p 2714 1191 V 40 w(t,i)(const)d(c)m(har*)h(username,)390
1300 y(gn)m(utls)p 636 1300 V 40 w(datum)p 934 1300 V
40 w(t*)31 b(k)m(ey\);)390 1432 y Fs(username)25 b FB(con)m(tains)i
(the)g(actual)i(username.)39 b(The)26 b Fs(key)g FB(m)m(ust)g(b)s(e)h
(\014lled)f(in)h(using)f(the)h Fs(gnutls_)390 1541 y(malloc(\))p
FB(.)390 1673 y(In)39 b(case)j(the)e(callbac)m(k)i(returned)d(a)i
(negativ)m(e)h(n)m(um)m(b)s(er)d(then)h(gn)m(utls)h(will)f(assume)g
(that)h(the)390 1782 y(username)30 b(do)s(es)g(not)g(exist.)390
1914 y(The)g(callbac)m(k)k(function)c(will)h(only)h(b)s(e)e(called)i
(once)g(p)s(er)e(handshak)m(e.)42 b(The)30 b(callbac)m(k)j(function)390
2023 y(should)c(return)h(0)g(on)h(success,)g(while)f(-1)h(indicates)g
(an)g(error.)150 2217 y Fu(gn)m(utls)p 483 2217 37 5
v 55 w(psk)p 719 2217 V 54 w(set)p 925 2217 V 54 w(serv)m(er)p
1301 2217 V 54 w(creden)m(tials)p 1929 2217 V 54 w(hin)m(t)3350
2407 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_psk_set_server)q
(_cre)q(den)q(tia)q(ls_)q(hint)565 2517 y Fg(\()p Ff(gn)m(utls)p
846 2517 28 4 v 41 w(psk)p 1022 2517 V 39 w(serv)m(er)p
1294 2517 V 41 w(creden)m(tials)p 1756 2517 V 41 w(t)31
b Fe(res)12 b Ff(.)31 b(const)g(c)m(har)f(*)h Fe(hint)12
b Fg(\()390 2626 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs
(gnutls_psk_server_credenti)o(als_)o(t)24 b FB(structure.)390
2758 y Ff(hin)m(t)r FB(:)41 b(is)30 b(the)h(PSK)e(iden)m(tit)m(y)j(hin)
m(t)e(string)390 2889 y(This)f(function)g(sets)h(the)f(iden)m(tit)m(y)i
(hin)m(t,)f(in)f(a)h Fs(gnutls_psk_server_credent)o(ial)o(s_t)23
b FB(struc-)390 2999 y(ture.)73 b(This)41 b(hin)m(t)g(is)h(sen)m(t)f
(to)i(the)e(clien)m(t)i(to)f(help)f(it)h(c)m(hose)g(a)g(go)s(o)s(d)f
(PSK)f(creden)m(tial)j(\(i.e.,)390 3109 y(username)30
b(and)g(passw)m(ord\).)390 3240 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)
26 b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)390
3371 y Fn(Since:)41 b FB(2.4.0)150 3565 y Fu(gn)m(utls)p
483 3565 37 5 v 55 w(psk)p 719 3565 V 54 w(set)p 925
3565 V 54 w(serv)m(er)p 1301 3565 V 54 w(dh)p 1491 3565
V 54 w(params)3350 3755 y FB([F]-8 b(unction])-3599 b
Fh(void)54 b(gnutls_psk_set_server_dh)q(_pa)q(ram)q(s)565
3865 y Fg(\()p Ff(gn)m(utls)p 846 3865 28 4 v 41 w(psk)p
1022 3865 V 39 w(serv)m(er)p 1294 3865 V 41 w(creden)m(tials)p
1756 3865 V 41 w(t)31 b Fe(res)12 b Ff(.)31 b(gn)m(utls)p
2327 3865 V 40 w(dh)p 2469 3865 V 39 w(params)p 2797
3865 V 40 w(t)f Fe(dh_params)12 b Fg(\()390 3974 y Ff(res)t
FB(:)40 b(is)31 b(a)f(gn)m(utls)p 984 3974 V 41 w(psk)p
1160 3974 V 39 w(serv)m(er)p 1432 3974 V 41 w(creden)m(tials)p
1894 3974 V 41 w(t)h(structure)390 4106 y Ff(dh)p 498
4106 V 39 w(params)t FB(:)40 b(is)30 b(a)h(structure)f(that)h(holds)f
(Di\016e-Hellman)i(parameters.)390 4237 y(This)c(function)h(will)h(set)

g(the)f(Di\016e-Hellman)i(parameters)f(for)e(an)i(anon)m(ymous)f(serv)m
(er)g(to)h(use.)390 4347 y(These)g(parameters)h(will)g(b)s(e)e(used)h
(in)g(Di\016e-Hellman)i(exc)m(hange)g(with)e(PSK)g(cipher)g(suites.)150
4540 y Fu(gn)m(utls)p 483 4540 37 5 v 55 w(psk)p 719
4540 V 54 w(set)p 925 4540 V 54 w(serv)m(er)p 1301 4540
V 54 w(params)p 1743 4540 V 54 w(function)3350 4731 y
FB([F]-8 b(unction))-3599 b Fh(void)54 b(gnutls_psk_set_server_pa)q
(ram)q(s_f)q(unc)q(tion)565 4840 y Fg(\()p Ff(gn)m(utls)p
846 4840 28 4 v 41 w(psk)p 1022 4840 V 39 w(serv)m(er)p
1294 4840 V 41 w(creden)m(tials)p 1756 4840 V 41 w(t)31
b Fe(res)12 b Ff(.)31 b(gn)m(utls)p 2327 4840 V 40 w(params)p
2656 4840 V 40 w(function)f(*)h Fe(func)12 b Fg(\()390
4950 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs(gnutls_certificate_credent)o
(ials)o(_t)24 b FB(structure)390 5081 y Ff(func)6 b FB(:)39
b(is)31 b(the)f(function)g(to)i(b)s(e)d(called)390 5213
y(This)41 b(function)h(will)h(set)f(a)h(callbac)m(k)h(in)e(order)f(for)
h(the)g(serv)m(er)h(to)g(get)g(the)f(Di\016e-Hellman)390
5322 y(parameters)31 b(for)f(PSK)f(authen)m(tication.)43
b(The)30 b(callbac)m(k)i(should)e(return)f(zero)i(on)g(success.)p
eop end
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54 w(c)m(hec)m(k)p 1225 299 V 52 w(p)s(ending)3350 492
y FB([F]-8 b(unction))-3599 b Fh(size_t)54 b(gnutls_record_check_pe)q
(ndi)q(ng)e Fg(\()p Ff(gn)m(utls)p 2255 492 28 4 v 41
w(session)p 2565 492 V 40 w(t)30 b Fe(session)12 b Fg(\()390
601 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
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(are)h(an)m(y)g(data)g(to)g(receiv)m(e)h(in)e(the)h(gn)m(utls)g
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Fs(select\(\))d FB(to)j(c)m(hec)m(k)i(for)d(data)i(in)e(a)h(TCP)f
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1218 y Fn>Returns:)h FB(the)31 b(size)g(of)g(that)g(data)g(or)f(0.)150
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(not)h(need)f(to)h(use)390 1957 y(this)25 b(function,)h(but)f(there)h
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2939 y(This)31 b(function)h(pro)m(vides)h(information)f(ab)s(out)g(the)
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3048 y(only)27 b(useful)f(if)h(a)h(prior)e(gn)m(utls)i(function)e(call)
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b(gnutls_rsa_params_cpy)f Fg(\()p Ff(gn)m(utls)p 1784
808 28 4 v 41 w(rsa)p 1942 808 V 40 w(params)p 2271 808
V 39 w(t)31 b Fe(dst)12 b Ff(,)565 918 y(gn)m(utls)p
811 918 V 41 w(rsa)p 969 918 V 39 w(params)p 1297 918
V 40 w(t)31 b Fe(src)12 b Fg(\()390 1027 y Ff(dst)r FB(:)40
b(Is)30 b(the)h(destination)g(structure,)f(whic)m(h)g(should)g(b)s(e)f
(initialized.)390 1164 y Ff(src)6 b FB(:)40 b(Is)30 b(the)h(source)f
(structure)390 1300 y(This)g(function)g(will)g(cop)m(y)h(the)g(RSA)f
(parameters)h(structure)f(from)f(source)i(to)g(destination.)390
1436 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(negativ)m(e)j(error)d(co)s(de.)150
1637 y Fu(gn)m(utls)p 483 1637 37 5 v 55 w(rsa)p 696
1637 V 54 w(params)p 1138 1637 V 54 w(deinit)3350 1836
y FB([F]-8 b(unction)]-3599 b Fh(void)54 b(gnutls_rsa_params_deinit)e
Fg(\()p Ff(gn)m(utls)p 1993 1836 28 4 v 41 w(rsa)p 2151
1836 V 40 w(params)p 2480 1836 V 40 w(t)30 b Fe(rsa_params)12
b Fg(\()390 1945 y Ff(rsa)p 513 1945 V 40 w(params)t
FB(:)40 b(Is)30 b(a)h(structure)f(that)h(holds)e(the)i(parameters)390
2082 y(This)f(function)g(will)g(deinitialize)j(the)e(RSA)e(parameters)i
(structure.)150 2283 y Fu(gn)m(utls)p 483 2283 37 5 v
55 w(rsa)p 696 2283 V 54 w(params)p 1138 2283 V 54 w(exp)s(ort)p
1543 2283 V 55 w(pk)m(cs1)3350 2481 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_rsa_params_exp)q(ort_)q(pk)cq(s1)f
Fg(\()p Ff(gn)m(utls)p 2255 2481 28 4 v 41 w(rsa)p 2413
2481 V 39 w(params)p 2741 2481 V 40 w(t)31 b Fe(params)12
b Ff(,)565 2591 y(gn)m(utls)p 811 2591 V 41 w(x509)p
1035 2591 V 41 w(cert)p 1187 2591 V 40 w(fm)m(t)p 1363
2591 V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(unsigned)d(c)m(har)i(*)g
Fe(params_data)12 b Ff(,)33 b(size)p 3288 2591 V 41 w(t)e(*)565
2701 y Fe(params_data_size)12 b Fg(\()390 2810 y Ff(params)t
FB(:)40 b(Holds)31 b(the)f(RSA)g(parameters)390 2946
y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40

b(One)30 b(of)h(PEM)f(or)g(DER.)390 3083 y Ff(params)p
685 3083 V 40 w(data)p FB(:)40 b(will)29 b(con)m(tain)h(a)f(PK)m(CS1)f
(RSAPublicKey)g(structure)g(PEM)g(or)h(DER)f(enco)s(ded)390
3219 y Ff(params)p 685 3219 V 40 w(data)p 901 3219 V
40 w(size)5 b FB(:)43 b(holds)30 b(the)h(size)g(of)g(params)p
2115 3219 V 40 w(data)g(\(and)g(will)g(b)s(e)f(replaced)h(b)m(y)g(the)g
(actual)390 3329 y(size)g(of)g(parameters\))390 3465
y(This)43 b(function)h(will)g(exp)s(ort)g(the)g(giv)m(en)h(RSA)e
(parameters)h(to)h(a)f(PK)m(CS1)g(RSAPublicKey)390 3575
y(structure.)103 b(If)51 b(the)h(bu\013er)e(pro)m(vided)h(is)g(not)h
(long)g(enough)f(to)h(hold)f(the)h(output,)k(then)390
3684 y(GNUTLS)p 777 3684 V 40 w(E)p 879 3684 V 40 w(SHOR)-8
b(T)p 1234 3684 V 39 w(MEMOR)g(Y)p 1699 3684 V 41 w(BUFFER)31
b(will)g(b)s(e)f(returned.)390 3820 y(If)35 b(the)h(structure)f(is)g
(PEM)h(enco)s(ded,)g(it)g(will)g(ha)m(v)m(e)h(a)f(header)f(of)g
Fs(")p FB(BEGIN)h(RSA)f(PRIV)-10 b(A)i(TE)390 3930 y(KEY)p
Fs(")p FB(.)390 4066 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(negativ)m(e)j(error)d(co)s(de.)150
4267 y Fu(gn)m(utls)p 483 4267 37 5 v 55 w(rsa)p 696
4267 V 54 w(params)p 1138 4267 V 54 w(exp)s(ort)p 1543
4267 V 55 w(ra)m(w)3350 4466 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_rsa_params_exp)q(ort_)q(raw)f Fg(\()p
Ff(gn)m(utls)p 2150 4466 28 4 v 41 w(rsa)p 2308 4466
V 40 w(params)p 2637 4466 V 39 w(t)31 b Fe(params)12
b Ff(),565 4576 y(gn)m(utls)p 811 4576 V 41 w(datum)p
1110 4576 V 39 w(t)31 b(*)g Fe(m)12 b Ff(),30 b(gn)m(utls)p
1650 4576 V 40 w(datum)p 1948 4576 V 40 w(t)h(*)f Fe(e)12
b Ff(),31 b(gn)m(utls)p 2489 4576 V 40 w(datum)p 2787
4576 V 40 w(t)f(*)h Fe(d)12 b Ff(),30 b(gn)m(utls)p 3327
4576 V 41 w(datum)p 3626 4576 V 39 w(t)565 4685 y(*)h
Fe(p)12 b Ff(),30 b(gn)m(utls)p 1006 4685 V 41 w(datum)p
1305 4685 V 39 w(t)h(*)g Fe(q)12 b Ff(),30 b(gn)m(utls)p
1845 4685 V 40 w(datum)p 2143 4685 V 40 w(t)h(*)f Fe(u)12
b Ff(),31 b(unsigned)e(in)m(t)i(*)g Fe(bits)12 b Fg(\()390
4795 y Ff(params)t FB(:)40 b(a)31 b(structure)f(that)h(holds)f(the)g
(rsa)g(parameters)390 4931 y Ff(m)p FB(:)40 b(will)31
b(hold)f(the)h(mo)s(dulus)390 5067 y Ff(e)5 b FB(:)41
b(will)31 b(hold)f(the)g(public)g(exp)s(onen)m(t)390
5204 y Ff(d)t FB(:)40 b(will)30 b(hold)g(the)h(priv)-5
b(ate)31 b(exp)s(onen)m(t)390 5340 y Ff(p)s FB(:)40 b(will)31
b(hold)f(the)g(\014rst)g(prim)e)g(\(p\))p eop end
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Ff(q)r FB(:)41 b(will)30 b(hold)g(the)h(second)f(prim)e)g(\(q\))390
432 y Ff(u)p FB(:)40 b(will)31 b(hold)f(the)g(co)s(e\016cien)m(t)390
564 y Ff(bits)t FB(:)40 b(if)31 b(non)e(n)m(ull)i(will)f(hold)h(the)f
(prim'e)s)g(n)m(um)m(b)s(er)f(of)i(bits)390 697 y(This)41

b(function)g(will)h(exp)s(ort)f(the)h(RSA)f(parameters)h(found)e(in)h
(the)h(giv)m(en)h(structure.)73 b(The)390 806 y(new)35
b(parameters)g(will)h(b)s(e)f(allo)s(cated)i(using)e
Fs(gnutls_malloc\(\))c FB(and)j(will)i(b)s(e)e(stored)i(in)f(the)390
916 y(appropriate)30 b(datum.)390 1049 y Fn>Returns:)40
b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(negativ)m(e)
j(error)d(co)s(de.)150 1244 y Fu(gn)m(utls)p 483 1244
37 5 v 55 w(rsa)p 696 1244 V 54 w(params)p 1138 1244
V 54 w(generate2)3350 1437 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_rsa_params_gen)q(erat)q(e2)f Fg(\()p
Ff(gn)m(utls)p 2098 1437 28 4 v 41 w(rsa)p 2256 1437
V 40 w(params)p 2585 1437 V 39 w(t)31 b Fe(params)12
b Ff(,)565 1547 y(unsigned)29 b(in)m(t)i Fe(bits)12 b
Fg(\()390 1656 y Ff(params)t FB(:)40 b(The)30 b(structure)g(where)g
(the)g(parameters)h(will)g(b)s(e)e(stored)390 1789 y
Ff(bits)t FB(:)40 b(is)31 b(the)f(prime's)g(n)m(um)m(b)s(er)f(of)i
(bits)390 1922 y(This)24 b(function)g(will)h(generate)h(new)e(temp)s
(orary)g(RSA)h(parameters)g(for)f(use)g(in)g(RSA-EXPOR)-8
b(T)390 2031 y(ciphersuites.)41 b(This)29 b(function)h(is)h(normally)f
(slo)m(w.)390 2164 y(Note)25 b(that)f(if)g(the)f(parameters)h(are)g(to)
g(b)s(e)f(used)g(in)g(exp)s(ort)h(cipher)f(suites)h(the)f(bits)h(v)-5
b(alue)24 b(should)390 2273 y(b)s(e)33 b(512)h(or)g(less.)50
b(Also)34 b(note)g(that)g(the)g(generation)h(of)e(new)g(RSA)g
(parameters)h(is)f(only)h(usable)390 2383 y(to)d(serv)m(ers.)40
b(Clien)m(ts)31 b(use)e(the)h(parameters)g(sen)m(t)h(b)m(y)e(the)h
(serv)m(er,)h(th)m(us)e(it's)i(no)e(use)h(calling)h(this)390
2493 y(in)f(clien)m(t)i(side.)390 2625 y Fn>Returns:)40
b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(negativ)m(e)
j(error)d(co)s(de.)150 2821 y Fu(gn)m(utls)p 483 2821
37 5 v 55 w(rsa)p 696 2821 V 54 w(params)p 1138 2821
V 54 w(imp)s(ort)p 1558 2821 V 55 w(pk)m(cs1)3350 3014
y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_rsa_params_imp)q(ort_)
q(pk)cq(s1)f Fg(\()p Ff(gn)m(utls)p 2255 3014 28 4 v
41 w(rsa)p 2413 3014 V 39 w(params)p 2741 3014 V 40 w(t)31
b Fe(params)12 b Ff(,)565 3123 y(const)31 b(gn)m(utls)p
1049 3123 V 40 w(datum)p 1347 3123 V 40 w(t)g(*)f Fe(pkcs1_params)12
b Ff(,)34 b(gn)m(utls)p 2463 3123 V 41 w(x509)p 2687
3123 V 41 w(cert)p 2839 3123 V 40 w(fm)m(t)p 3015 3123
V 41 w(t)c Fe(format)12 b Fg(\()390 3233 y Ff(params)t
FB(:)40 b(A)31 b(structure)e(where)h(the)h(parameters)g(will)f(b)s(e)g
(copied)h(to)390 3366 y Ff(pk)m(cs1)p 613 3366 V 41 w(params)t
FB(:)43 b(should)32 b(con)m(tain)h(a)g(PK)m(CS1)f(RSAPublicKey)f
(structure)h(PEM)g(or)g(DER)h(en-)390 3475 y(co)s(ded)390
3608 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(params.)40
b(PEM)31 b(or)f(DER.)390 3740 y(This)c(function)h(will)g(extract)i(the)
e(RSAPublicKey)f(found)g(in)h(a)g(PK)m(CS1)g(formatted)g(structure.)390
3873 y(If)g(the)g(structure)g(is)g(PEM)g(enco)s(ded,)h(it)g(should)e
(ha)m(v)m(e)i(a)g(header)f(of)g Fs(")p FB(BEGIN)g(RSA)g(PRIV)-10

b(A)i(TE)390 3983 y(KEY)p Fs(")p FB(.)390 4115 y Fn>Returns:40
 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(negativ)m(e)
 j(error)d(co)s(de.)150 4311 y Fu(gn)m(utls)p 483 4311
 37 5 v 55 w(rsa)p 696 4311 V 54 w(params)p 1138 4311
 V 54 w(imp)s(ort)p 1558 4311 V 55 w(ra)m(w)3350 4504
 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_rsa_params_imp)q(ort_)
 q(raw)f Fg(\()p Ff(gn)m(utls)p 2150 4504 28 4 v 41 w(rsa)p
 2308 4504 V 40 w(params)p 2637 4504 V 39 w(t)565 4613
 y Fe(rsa_params)12 b Ff(,)33 b(const)e(gn)m(utls)p 1639
 4613 V 41 w(datum)p 1938 4613 V 39 w(t)g(*)g Fe(m)12
 b Ff(,)30 b(const)h(gn)m(utls)p 2716 4613 V 40 w(datum)p
 3014 4613 V 40 w(t)f(*)h Fe(e)12 b Ff(,)31 b(const)565
 4723 y(gn)m(utls)p 811 4723 V 41 w(datum)p 1110 4723
 V 39 w(t)e(*)h Fe(d)12 b Ff(,)29 b(const)g(gn)m(utls)p
 1882 4723 V 41 w(datum)p 2181 4723 V 39 w(t)h(*)f Fe(p)12
 b Ff(,)29 b(const)h(gn)m(utls)p 2954 4723 V 40 w(datum)p
 3252 4723 V 40 w(t)f(*)g Fe(q)12 b Ff(,)29 b(const)565
 4833 y(gn)m(utls)p 811 4833 V 41 w(datum)p 1110 4833
 V 39 w(t)i(*)g Fe(u)12 b Fg(\()390 4942 y Ff(rsa)p 513
 4942 V 40 w(params)t FB(:)40 b(Is)30 b(a)h(structure)f(will)g(hold)g
 (the)h(parameters)390 5075 y Ff(m)p FB(:)40 b(holds)30
 b(the)h(mo)s(dulus)390 5207 y Ff(e)5 b FB(:)41 b(holds)30
 b(the)h(public)e(exp)s(onen)m(t)390 5340 y Ff(d)t FB(:)40
 b(holds)30 b(the)g(priv)-5 b(ate)31 b(exp)s(onen)m(t)p
 eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(168)390 299 y
 Ff(p)s FB(:)40 b(holds)30 b(the)g(\014rst)g(prim)e)g(\(p\))390
 438 y Ff(q)r FB(:)41 b(holds)30 b(the)g(second)h(prim)e)g(\(q\))390
 578 y Ff(u)p FB(:)40 b(holds)30 b(the)h(co)s(e\016cien)m(t)390
 717 y(This)25 b(function)h(will)g(replace)h(the)f(parameters)g(in)g
 (the)g(giv)m(en)h(structure.)39 b(The)25 b(new)h(parameters)390
 827 y(should)j(b)s(e)h(stored)h(in)f(the)g(appropriate)h(gn)m(utls)p
 2075 827 28 4 v 40 w(datum.)390 966 y Fn>Returns:40
 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(negativ)m(e)
 j(error)d(co)s(de.)150 1170 y Fu(gn)m(utls)p 483 1170
 37 5 v 55 w(rsa)p 696 1170 V 54 w(params)p 1138 1170
 V 54 w(init)3350 1372 y FB([F]-8 b(unction))-3599 b Fh(int)53
 b(gnutls_rsa_params_ini)q(t)e Fg(\()p Ff(gn)m(utls)p
 1836 1372 28 4 v 41 w(rsa)p 1994 1372 V 40 w(params)p
 2323 1372 V 40 w(t)30 b(*)h Fe(rsa_params)12 b Fg(\()390
 1481 y Ff(rsa)p 513 1481 V 40 w(params)t FB(:)40 b(Is)30
 b(a)h(structure)f(that)h(will)f(hold)g(the)h(parameters)390
 1621 y(This)f(function)g(will)g(initialize)j(the)e(temp)s(orary)f(RSA)f
 (parameters)i(structure.)390 1760 y Fn>Returns:40 b
 Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(negativ)m(e)j
 (error)d(co)s(de.)150 1964 y Fu(gn)m(utls)p 483 1964

37 5 v 55 w(serv)m(er)p 860 1964 V 54 w(name)p 1200 1964
V 54 w(get)3350 2166 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_server_name_ge)q(t)e Fg(\()p Ff(gn)m(utls)p
1836 2166 28 4 v 41 w(session)p 2146 2166 V 40 w(t)31
b Fe(session)12 b Ff(,)32 b(v)m(oid)f(*)g Fe(data)12
b Ff(,)565 2275 y(size)p 712 2275 V 41 w(t)31 b(*)f Fe(data_length)12
b Ff(,)34 b(unsigned)29 b(in)m(t)i(*)g Fe(type)12 b Ff(,)31
b(unsigned)e(in)m(t)i Fe(indx)12 b Fg(\()390 2385 y Ff(session)p
FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
2524 y Ff(data)p FB(:)41 b(will)31 b(hold)f(the)h(data)390
2664 y Ff(data)p 572 2664 V 41 w(length)p FB(:)41 b(will)31
b(hold)f(the)g(data)h(length.)41 b(Must)31 b(hold)f(the)g(maxim)m(um)h
(size)g(of)f(data.)390 2803 y Ff(t)m(y)p(s)e)5 b FB(:)41
b(will)31 b(hold)f(the)g(serv)m(er)h(name)f(indicator)h(t)m(y)p(s)e)390
2943 y Ff(indx)6 b FB(:)40 b(is)31 b(the)f(index)g(of)h(the)f(serv)m
(er)p 1628 2943 V 41 w(name)390 3082 y(This)37 b(function)h(will)g
(allo)m(w)h(y)m(ou)f(to)h(get)g(the)f(name)g(indication)g(\(if)g(an)m
(y),)j(a)d(clien)m(t)i(has)d(sen)m(t.)390 3191 y(The)30
b(name)g(indication)i(ma)m(y)f(b)s(e)e(an)m(y)i(of)f(the)h(en)m
(umeration)g(gn)m(utls)p 2765 3191 V 40 w(serv)m(er)p
3038 3191 V 41 w(name)p 3291 3191 V 40 w(t)m(y)p(s)e)p
3505 3191 V 40 w(t.)390 3331 y(If)38 b Fs(type)f FB(is)h(GNUTLS)p
1204 3331 V 40 w(NAME)p 1525 3331 V 41 w(DNS,)g(then)g(this)h(function)
f(is)g(to)h(b)s(e)f(used)g(b)m(y)g(serv)m(ers)g(that)390
3440 y(supp)s(ort)29 b(virtual)h(hosting,)h(and)f(the)h(data)g(will)f
(b)s(e)g(a)h(n)m(ull)f(terminated)h(UTF-8)g(string.)390
3580 y(If)20 b Fs(data)f FB(has)h(not)g(Enough)g(size)i(to)f(hold)f
(the)g(serv)m(er)h(name)f(GNUTLS)p 2763 3580 V 40 w(E)p
2865 3580 V 39 w(SHOR)-8 b(T)p 3219 3580 V 40 w(MEMOR)g(Y)p
3685 3580 V 41 w(BUFFER)390 3689 y(is)30 b(returned,)g(and)g
Fs(data_length)d FB(will)k(hold)f(the)g(required)g(size.)390
3829 y Fs(index)c FB(is)h(used)g(to)h(retriev)m(e)g(more)g(than)f(one)g
(serv)m(er)h(names)f(\(if)h(sen)m(t)g(b)m(y)f(the)g(clien)m(t.)42
b(The)27 b(\014rst)390 3938 y(serv)m(er)36 b(name)g(has)f(an)h(index)g
(of)g(0,)h(the)f(second)g(1)g(and)g(so)g(on.)57 b(If)35
b(no)h(name)f(with)h(the)g(giv)m(en)390 4048 y(index)30
b(exists)h(GNUTLS)p 1273 4048 V 40 w(E)p 1375 4048 V
40 w(REQUESTED)p 1993 4048 V 39 w(D)m(A)-8 b(T)g(A)p
2284 4048 V 41 w(NOT)p 2530 4048 V 40 w(A)e(V)g(AILABLE)30
b(is)h(returned.)390 4187 y Fn>Returns:)42 b FB(On)30
b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
4297 y(is)f(returned.)150 4501 y Fu(gn)m(utls)p 483 4501
37 5 v 55 w(serv)m(er)p 860 4501 V 54 w(name)p 1200 4501
V 54 w(set)3350 4703 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_server_name_se)q(t)e Fg(\()p Ff(gn)m(utls)p
1836 4703 28 4 v 41 w(session)p 2146 4703 V 40 w(t)31
b Fe(session)12 b Ff(,)565 4812 y(gn)m(utls)p 811 4812

V 41 w(serv)m(er)p 1085 4812 V 40 w(name)p 1337 4812
V 40 w(t)m(yp)s(e)p 1551 4812 V 40 w(t)31 b Fe(type)12
b Ff(,)31 b(const)g(v)m(oid)g(*)g Fe(name)12 b Ff(,)31
b(size)p 2861 4812 V 41 w(t)g Fe(name_length)12 b Fg(())390
4922 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 5061 y Ff(t)m(yp)s(e)5 b FB(:)41
b(sp)s(eci\014es)30 b(the)h(indicator)g(t)m(yp)s(e)390
5201 y Ff(name)5 b FB(:)41 b(is)30 b(a)h(string)f(that)h(con)m(tains)h
(the)e(serv)m(er)h(name.)390 5340 y Ff(name)p 608 5340
V 40 w(length)p FB(:)41 b(holds)30 b(the)h(length)f(of)h(name)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(169)390 299 y(This)43
b(function)g(is)h(to)g(b)s(e)f(used)g(b)m(y)h(clien)m(ts)h(that)f(w)m
(an)m(t)h(to)f(inform)f(\(via)j(a)f(TLS)e(extension)390
408 y(mec)m(hanism))28 b(the)f(serv)m(er)g(of)g(the)g(name)g(they)h
(connected)g(to.)40 b(This)26 b(should)g(b)s(e)g(used)h(b)m(y)f(clien)m
(ts)390 518 y(that)31 b(connect)g(to)g(serv)m(ers)g(that)g(do)f
(virtual)h(hosting.)390 663 y(The)k(v)-5 b(alue)36 b(of)f
Fs(name)f FB(dep)s(ends)g(on)h(the)g Fs(ind)g FB(t)m(yp)s(e.)56
b(In)34 b(case)j(of)e(GNUTLS)p 3050 663 28 4 v 40 w(NAME)p
3371 663 V 40 w(DNS,)h(an)390 773 y(ASCII)s(Ic(or)h(UTF-8)i(n)m(ull)e
(terminated)h(string,)h(without)e(the)h(trailing)g(dot,)h(is)e(exp)s
(ected.)51 b(IPv4)390 882 y(or)30 b(IPv6)h(addresses)f(are)g(not)h(p)s
(ermitted.)390 1028 y Fn>Returns:)42 b FB(On)30 b(success,)j
Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i
(an)f(error)g(co)s(de)390 1137 y(is)f(returned.)150 1347
y Fu(gn)m(utls)p 483 1347 37 5 v 55 w(session)p 901 1347
V 55 w(enable)p 1298 1347 V 55 w(compatibilit)m(y)p 2061
1347 V 53 w(mo)s(de)3350 1555 y FB([F]-8 b(unction))-3599
b Fh(void)54 b(gnutls_session_enable_co)q(mpa)q(tib)q(ili)q(ty_m)q(ode)
565 1664 y Fg(())p Ff(gn)m(utls)p 846 1664 28 4 v 41
w(session)p 1156 1664 V 40 w(t)31 b Fe(session)12 b Fg(())390
1774 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 1919 y(This)45 b(function)h(can)h(b)s(e)e(used)h
(to)h(disable)f(certain)h(\(securit)m(y\))h(features)f(in)e(TLS)h(in)f
(order)390 2029 y(to)37 b(main)m(tain)h(maxim)m(um)e(compatibilit)m(y)i
(with)f(buggy)f(clien)m(ts.)60 b(It)37 b(is)f(equiv)-5
b(alen)m(t)38 b(to)f(calling:)390 2138 y Fs(gnutls_record_disable_pa)o
(ddin)o(g(\\))390 2283 y FB(Normally)25 b(only)f(serv)m(ers)g(that)g
(require)g(maxim)m(um)g(compatibilit)m(y)i(with)e(ev)m(erything)g(out)g
(there,)390 2393 y(need)30 b(to)h(call)h(this)e(function.)150
2603 y Fu(gn)m(utls)p 483 2603 37 5 v 55 w(session)p
901 2603 V 55 w(get)p 1121 2603 V 55 w(clien)m(t)p 1468
2603 V 53 w(random)3350 2810 y FB([F]-8 b(unction))-3599
b Fh(const)54 b(void)f(*)g(gnutls_session_get_cli)q(ent)q(_ran)q(dom)
565 2920 y Fg(())p Ff(gn)m(utls)p 846 2920 28 4 v 41

w(session)p 1156 2920 V 40 w(t)31 b Fe(session)12 b Fg(\))390
3030 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 3175 y(Return)31 b(a)h(p)s(oin)m(ter)f(to)i(the)f
(32-b)m(yte)h(clien)m(t)g(random)e(\014eld)g(used)g(in)g(the)h
(session.)45 b(The)31 b(p)s(oin)m(ter)390 3284 y(m)m(ust)f(not)h(b)s(e)
f(mo)s(di\014ed)f(or)h(deallo)s(cated.)390 3429 y(If)h(a)g(clien)m(t)h
(random)f(v)-5 b(alue)31 b(has)g(not)g(y)m(et)h(b)s(een)e(established.)
i(the)f(output)g(will)g(b)s(e)f(garbage;)j(in)390 3539
y(particular,)e(a)g Fs(NULL)e FB(return)g(v)-5 b(alue)31
b(should)e(not)i(b)s(e)f(exp)s(ected.)390 3684 y Fn>Returns:)40
b FB(p)s(oin)m(ter)31 b(to)g(clien)m(t)h(random)d(data.)150
3894 y Fu(gn)m(utls)p 483 3894 37 5 v 55 w(session)p
901 3894 V 55 w(get)p 1121 3894 V 55 w(data2)3350 4102
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_session_get_da)q(ta2)f
Fg(\()p Ff(gn)m(utls)p 1941 4102 28 4 v 41 w(session)p
2251 4102 V 40 w(t)31 b Fe(session)12 b Ff(,)565 4211
y(gn)m(utls)p 811 4211 V 41 w(datum)p 1110 4211 V 39
w(t)31 b(*)g Fe(data)12 b Fg(\))390 4321 y Ff(session)p
FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
4466 y Ff(data)p FB(:)41 b(is)31 b(a)g(p)s(oin)m(ter)f(to)h(a)g(datum)f
(that)h(will)f(hold)g(the)h(session.)390 4611 y>Returns)g(all)h
(session)g(parameters,)h(in)e(order)h(to)g(supp)s(ort)e(resuming.)44
b(The)32 b(clien)m(t)h(should)e(call)390 4721 y(this,)26
b(and)d(k)m(eep)i(the)g(returned)e(session,)i(if)g(he)f(w)m(an)m(ts)h
(to)g(resume)e(that)i(curren)m(t)f(v)m(ersion)h(later)g(b)m(y)390
4830 y(calling)j Fs(gnutls_session_set_data(\))o FB(.)34
b(This)26 b(function)g(m)m(ust)h(b)s(e)f(called)i(after)f(a)g
(successful)390 4940 y(handshak)m(e.)40 b(The)30 b(returned)f(datum)h
(m)m(ust)g(b)s(e)g(freed)g(with)g Fs(gnutls_free(\))p
FB(.)390 5085 y(Resuming)g(sessions)g(is)h(really)g(useful)f(and)f(sp)s
(eedups)g(connections)i(after)g(a)g(succesful)f(one.)390
5230 y Fn>Returns:)46 b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29
b FB(\(0\))34 b(is)f(returned,)g(otherwise)h(an)f(error)g(co)s(de)g(is)
390 5340 y(returned.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(170)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(session)p 901 299
V 55 w(get)p 1121 299 V 55 w(data)3350 511 y FB([F]-8
b(unction))-3599 b Fh(int)53 b(gnutls_session_get_da)q(ta)f
Fg(\()p Ff(gn)m(utls)p 1889 511 28 4 v 40 w(session)p
2198 511 V 41 w(t)30 b Fe(session)12 b Ff(,)32 b(v)m(oid)f(*)565
620 y Fe(session_data)12 b Ff(,)34 b(size)p 1407 620
V 41 w(t)c(*)h Fe(session_data_size)12 b Fg(\))390 730
y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 880 y Ff(session)p 665 880 V 40 w(data)p
FB(:)42 b(is)30 b(a)h(p)s(oin)m(ter)f(to)h(space)g(to)g(hold)f(the)h
(session.)390 1029 y Ff(session)p 665 1029 V 40 w(data)p

881 1029 V 41 w(size)5 b FB(:)42 b(is)30 b(the)h(session)p
1652 1029 V 40 w(data's)g(size,)g(or)g(it)g(will)f(b)s(e)g(set)h(b)m(y)
f(the)h(function.)390 1179 y>Returns)g(all)h(session)g(parameters,)h
(in)e(order)h(to)g(supp)s(ort)e(resuming.)44 b(The)32
b(clien)m(t)h(should)e(call)390 1289 y(this,)26 b(and)d(k)m(eep)i(the)g
(returned)e(session,)i(if)g(he)f(w)m(an)m(ts)h(to)g(resume)e(that)i
(curren)m(t)f(v)m(ersion)h(later)g(b)m(y)390 1398 y(calling)32
b Fs(gnutls_session_set_data\(\))24 b FB(This)31 b(function)f(m)m(ust)h
(b)s(e)f(called)i(after)g(a)f(successful)390 1508 y(handshak)m(e.)390
1658 y(Resuming)f(sessions)g(is)h(really)g(useful)f(and)f(sp)s(eedups)g
(connections)i(after)g(a)g(succesful)f(one.)390 1807
y Fn>Returns:)46 b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29
b FB(\(0\))34 b(is)f(returned,)g(otherwise)h(an)f(error)g(co)s(de)g(is)
390 1917 y(returned.)150 2131 y Fu(gn)m(utls)p 483 2131
37 5 v 55 w(session)p 901 2131 V 55 w(get)p 1121 2131
V 55 w(id)3350 2343 y FB([F]-8 b(unction])-3599 b Fh(int)53
b(gnutls_session_get_id)f Fg(\()p Ff(gn)m(utls)p 1784
2343 28 4 v 41 w(session)p 2094 2343 V 40 w(t)31 b Fe(session)12
b Ff(),)32 b(v)m(oid)f(*)565 2453 y Fe(session_id)12 b
Ff(),)33 b(size)p 1302 2453 V 41 w(t)e(*)g Fe(session_id_size)12
b Fg(\()390 2562 y Ff(session)p FB(:)41 b(is)30 b(a)h
Fs(gnutls_session_t)26 b FB(structure.)390 2712 y Ff(session)p
665 2712 V 40 w(id)t FB(:)40 b(is)31 b(a)f(p)s(oin)m(ter)h(to)g(space)g
(to)g(hold)f(the)g(session)h(id.)390 2862 y Ff(session)p
665 2862 V 40 w(id)p 781 2862 V 40 w(size)5 b FB(:)42
b(is)30 b(the)h(session)f(id's)g(size,)i(or)e(it)h(will)g(b)s(e)e(set)i
(b)m(y)g(the)f(function.)390 3011 y>Returns)38 b(the)g(curren)m(t)h
(session)g(id.)65 b(This)37 b(can)i(b)s(e)f(used)g(if)h(y)m(ou)f(w)m
(an)m(t)i(to)f(c)m(hec)m(k)h(if)f(the)g(next)390 3121
y(session)33 b(y)m(ou)g(tried)g(to)h(resume)f(w)m(as)g(actually)h
(resumed.)48 b(This)32 b(is)h(b)s(ecause)g(resumed)f(sessions)390
3231 y(ha)m(v)m(e)g(the)e(same)h(sessionID)g(with)f(the)g(original)i
(session.)390 3380 y(Session)j(id)f(is)h(some)g(data)h(set)f(b)m(y)g
(the)g(serv)m(er,)i(that)e(iden)m(tify)h(the)f(curren)m(t)f(session.)55
b(In)34 b(TLS)390 3490 y(1.0)d(and)f(SSL)f(3.0)j(session)e(id)g(is)h
(alw)m(a)m(ys)h(less)e(than)h(32)g(b)m(ytes.)390 3640
y Fn>Returns:)46 b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29
b FB(\(0\))34 b(is)f(returned,)g(otherwise)h(an)f(error)g(co)s(de)g(is)
390 3749 y(returned.)150 3964 y Fu(gn)m(utls)p 483 3964
37 5 v 55 w(session)p 901 3964 V 55 w(get)p 1121 3964
V 55 w(master)p 1540 3964 V 54 w(secret)3350 4176 y FB([F]-8
b(unction])-3599 b Fh(const)54 b(void)f(*)g(gnutls_session_get_mas)q
(ter)q(_sec)q(ret)565 4285 y Fg(\()p Ff(gn)m(utls)p 846
4285 28 4 v 41 w(session)p 1156 4285 V 40 w(t)31 b Fe(session)12
b Fg(\()390 4395 y Ff(session)p FB(:)41 b(is)30 b(a)h
Fs(gnutls_session_t)26 b FB(structure.)390 4544 y(Return)33
b(a)i(p)s(oin)m(ter)f(to)h(the)f(48-b)m(yte)i(master)e(secret)h(in)f
(the)g(session.)52 b(The)34 b(p)s(oin)m(ter)g(m)m(ust)g(not)390

4654 y(b)s(e)c(mo)s(di\014ed)f(or)h(deallo)s(cated.)390
4804 y(If)i(a)h(master)f(secret)i(v)-5 b(alue)32 b(has)g(not)h(y)m(et)h
(b)s(een)d(established,)j(the)e(output)g(will)h(b)s(e)e(garbage;)k(in)
390 4913 y(particular,)c(a)g Fs(NULL)e FB(return)g(v)-5
b(alue)31 b(should)e(not)i(b)s(e)f(exp)s(ected.)390 5063
y(Consider)g(using)g Fs(gnutls_prf(\))d FB(rather)k(than)f(extracting)
i(the)f(master)g(secret)h(and)e(use)g(it)h(to)390 5173
y(deriv)m(e)g(further)e(data.)390 5322 y Fn>Returns:)40
b FB(p)s(oin)m(ter)31 b(to)g(master)g(secret)g(data.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(171)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(session)p 901 299
V 55 w(get)p 1121 299 V 55 w(ptr)3350 522 y FB([F]-8
b(unction)]-3599 b Fh(void)54 b(*)e(gnutls_session_get_ptr)g
Fg(\()p Ff(gn)m(utls)p 1993 522 28 4 v 41 w(session)p
2303 522 V 40 w(t)31 b Fe(session)12 b Fg(\))390 632
y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 793 y(Get)h(user)f(p)s(oin)m(ter)g(for)g(session.)
39 b(Useful)26 b(in)g(callbac)m(ks.)41 b(This)26 b(is)g(the)g(p)s(oin)m
(ter)g(set)h(with)f Fs(gnutls_)390 903 y(session_set_ptr(\))p
FB(.)390 1064 y Fn>Returns:)52 b FB(the)37 b(user)f(giv)m(en)h(p)s(oin)
m(ter)f(from)g(the)h(session)f(structure,)j(or)e Fs(NULL)g
FB(if)g(it)h(w)m(as)g(nev)m(er)390 1174 y(set.)150 1400
y Fu(gn)m(utls)p 483 1400 37 5 v 55 w(session)p 901 1400
V 55 w(get)p 1121 1400 V 55 w(serv)m(er)p 1498 1400 V
54 w(random)3350 1623 y FB([F]-8 b(unction)]-3599 b Fh(const)54
b(void)f(*)g(gnutls_session_get_ser)q(ver)q(_ran)q(dom)565
1733 y Fg(\()p Ff(gn)m(utls)p 846 1733 28 4 v 41 w(session)p
1156 1733 V 40 w(t)31 b Fe(session)12 b Fg(\))390 1842
y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 2004 y(Return)k(a)g(p)s(oin)m(ter)h(to)g(the)g
(32-b)m(yte)h(serv)m(er)f(random)e(\014eld)h(used)g(in)g(the)h
(session.)41 b(The)30 b(p)s(oin)m(ter)390 2113 y(m)m(ust)g(not)h(b)s(e)
f(mo)s(di\014ed)f(or)h(deallo)s(cated.)390 2274 y(If)f(a)h(serv)m(er)g
(random)f(v)-5 b(alue)31 b(has)e(not)h(y)m(et)h(b)s(een)e(established,)
h(the)g(output)g(will)g(b)s(e)f(garbage;)i(in)390 2384
y(particular,)g(a)g Fs(NULL)e FB(return)g(v)-5 b(alue)31
b(should)e(not)i(b)s(e)f(exp)s(ected.)390 2545 y Fn>Returns:)40
b FB(p)s(oin)m(ter)31 b(to)g(serv)m(er)g(random)e(data.)150
2771 y Fu(gn)m(utls)p 483 2771 37 5 v 55 w(session)p
901 2771 V 55 w(is)p 1038 2771 V 55 w(resumed)3350 2995
y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_session_is_res)q(umed)
f Fg(\()p Ff(gn)m(utls)p 1993 2995 28 4 v 41 w(session)p
2303 2995 V 40 w(t)31 b Fe(session)12 b Fg(\))390 3104
y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 3266 y(Chec)m(k)31 b(whether)e(session)i(is)f

(resumed)g(or)g(not.)390 3427 y Fn>Returns:)40 b FB(non)30
b(zero)h(if)g(this)f(session)g(is)h(resumed,)e(or)i(a)g(zero)g(if)f
(this)g(is)h(a)g(new)e(session.)150 3653 y Fu(gn)m(utls)p
483 3653 37 5 v 55 w(session)p 901 3653 V 55 w(set)p
1108 3653 V 55 w(data)3350 3876 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_session_set_da)q(ta)f Fg(\()p Ff(gn)m(utls)p
1889 3876 28 4 v 40 w(session)p 2198 3876 V 41 w(t)30
b Fe(session)12 b Ff(.)32 b(const)f(v)m(oid)565 3986
y(*)g Fe(session_data)12 b Ff(.)34 b(size)p 1483 3986
V 41 w(t)c Fe(session_data_size)12 b Fg(\()390 4095 y
Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 4257 y Ff(session)p 665 4257 V 40
w(data)p FB(:)42 b(is)30 b(a)h(p)s(oin)m(ter)f(to)h(space)g(to)g(hold)f
(the)h(session.)390 4418 y Ff(session)p 665 4418 V 40
w(data)p 881 4418 V 41 w(size)5 b FB(:)42 b(is)30 b(the)h(session's)f
(size)390 4579 y(Sets)h(all)i(session)e(parameters,)h(in)f(order)g(to)h
(resume)f(a)h(previously)f(established)h(session.)43
b(The)390 4689 y(session)32 b(data)g(giv)m(en)g(m)m(ust)f(b)s(e)g(the)h
(one)f(returned)g(b)m(y)g Fs(gnutls_session_get_data\()o\()p
FB(.).38 b(This)390 4798 y(function)30 b(should)f(b)s(e)h(called)i(b)s
(efore)e Fs(gnutls_handshake\()p FB(.)390 4960 y(Keep)25
b(in)g(mind)g(that)g(session)h(resuming)e(is)i(advisory)-8
b(.)39 b(The)25 b(serv)m(er)h(ma)m(y)g(c)m(ho)s(ose)g(not)f(to)h
(resume)390 5069 y(the)31 b(session,)f(th)m(us)g(a)h(full)f(handshak)m
(e)g(will)h(b)s(e)f(p)s(erformed.)390 5230 y Fn>Returns:)46
b FB(On)32 b(success,)i Fs(GNUTLS_E_SUCCESS)29 b FB(\(0\))34
b(is)f(returned,)g(otherwise)h(an)f(error)g(co)s(de)g(is)390
5340 y(returned.)p eop end

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Fu(gn)m(utls)p 483 299 37 5 v 55 w(session)p 901 299
V 55 w(set)p 1108 299 V 55 w(\014nished)p 1573 299 V
55 w(function)3350 491 y FB([F]-8 b(unction))-3599 b
Fh(void)54 b(gnutls_session_set_finis)q(hed)q(_fu)q(nct)q(ion)e
Fg(\()p Ff(gn)m(utls)p 2621 491 28 4 v 41 w(session)p
2931 491 V 40 w(t)565 600 y Fe(session)12 b Ff(.)32 b(gn)m(utls)p
1244 600 V 41 w(\014nished)p 1590 600 V 38 w(callbac)m(k)p
1944 600 V 42 w(func)e Fe(func)12 b Fg(\()390 710 y Ff(session)p
FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
842 y Ff(func)6 b FB(:)39 b(a)31 b Fs(gnutls_finished_callback_)o(fun)o
(c)24 b FB(callbac)m(k.)390 974 y(Register)33 b(a)g(callbac)m(k)h
(function)e(for)g(the)g(session)h(that)f(will)h(b)s(e)e(called)j(when)d
(a)h(TLS)f(Finished)390 1084 y(message)38 b(has)e(b)s(een)f(generated.)
60 b(The)36 b(function)g(is)h(t)m(ypically)h(used)e(to)h(cop)m(y)g(a)m
(w)m(a)m(m)y)h(the)f(TLS)390 1193 y(\014nished)29 b(message)i(for)f
(later)i(use)e(as)h(a)f(c)m(hannel)h(binding)e(or)i(similar)f(purp)s
(ose.)390 1325 y Fn(The)35 b(callbac)m(k)i(should)d(follo)m(w)i(this)f

(protot)m(y)p(s(e):)51 b FB(v)m(oid)35 b(callbac)m(k)i(\(gn)m(utls)p
2976 1325 V 41 w(session)p 3286 1325 V 40 w(t)f Fs(session)p
FB(,)390 1435 y(const)31 b(v)m(oid)g(*)p Fs(finished)p
FB(,)e(size)p 1455 1435 V 41 w(t)h Fs(len)p FB(,);)390
1567 y(The)f Fs(finished)e FB(parameter)j(will)f(con)m(tain)i(the)f
(binary)e(TLS)h(\014nished)e(message,)k(and)e Fs(len)g
FB(will)390 1677 y(con)m(tains)d(its)g(length.)40 b(F)-8
b(or)26 b(SSLv3)e(connections,)k(the)d Fs(len)f FB(parameter)i(will)g
(b)s(e)e(36)i(and)f(for)g(TLS)390 1786 y(connections)31
b(it)g(will)g(b)s(e)f(12.)390 1918 y(It)i(is)g(recommended)f(that)h
(the)g(function)g(returns)e(quick)m(kly)j(in)e(order)h(to)g(not)g(dela)m
(y)h(the)f(hand-)390 2028 y(shak)m(e.)41 b(Use)31 b(the)g(function)f
(to)h(store)g(a)g(cop)m(y)g(of)f(the)h(TLS)e(\014nished)g(message)i
(for)g(later)g(use.)390 2160 y Fn(Since:)41 b FB(2.6.0)150
2355 y Fu(gn)m(utls)p 483 2355 37 5 v 55 w(session)p
901 2355 V 55 w(set)p 1108 2355 V 55 w(ptr)3350 2547
y FB([F)-8 b(unction)]-3599 b Fh(void)54 b(gnutls_session_set_ptr)e
Fg(\(p Ff(gn)m(utls)p 1889 2547 28 4 v 40 w(session)p
2198 2547 V 41 w(t)28 b Fe(session)12 b Ff(,)31 b(v)m(oid)e(*)g
Fe(ptr)12 b Fg(\)390 2656 y Ff(session)p FB(:)41 b(is)30
b(a)h Fs(gnutls_session_t)26 b FB(structure.)390 2788
y Ff(ptr)7 b FB(:)40 b(is)30 b(the)h(user)e(p)s(oin)m(ter)390
2920 y(This)h(function)g(will)h(set)h(\(asso)s(ciate\))h(the)e(user)f
(giv)m(en)h(p)s(oin)m(ter)g Fs(ptr)f FB(to)h(the)g(session)g
(structure.)390 3030 y(This)f(is)g(p)s(oin)m(ter)g(can)h(b)s(e)f
(accessed)h(with)f Fs(gnutls_session_get_ptr(\))p FB(.)150
3224 y Fu(gn)m(utls)p 483 3224 37 5 v 55 w(set)p 690
3224 V 54 w(default)p 1115 3224 V 54 w(exp)s(ort)p 1520
3224 V 55 w(priorit)m(y)3350 3416 y FB([F)-8 b(unction)]-3599
b Fh(int)53 b(gnutls_set_default_ex)q(port)q(_pr)q(ior)q(ity)f
Fg(\(p Ff(gn)m(utls)p 2464 3416 28 4 v 41 w(session)p
2774 3416 V 40 w(t)565 3526 y Fe(session)12 b Fg(\)390
3636 y Ff(session)p FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26
b FB(structure.)390 3768 y(Sets)j(some)h(default)f(priorit)m(y)g(on)g
(the)g(ciphers,)h(k)m(ey)f(exc)m(hange)i(metho)s(ds,)e(mac)s(g(and)g
(compres-)390 3877 y(sion)h(metho)s(ds.)40 b(This)30
b(function)g(also)h(includes)f(w)m(eak)i(algorithms.)390
4009 y Fn(This)e(is)g(the)h(same)g(as)f(calling:)42 b
FB(gn)m(utls)p 1752 4009 V 40 w(priorit)m(y)p 2090 4009
V 41 w(set)p 2242 4009 V 41 w(direct)30 b(\(session,)h
Fs(")p FB(EXPOR)-8 b(T)p Fs(")p FB(,)30 b(NULL);)390
4141 y(This)d(function)h(is)f(k)m(ept)i(around)e(for)g(bac)m(kw)m(ards)
h(compatibilit)m(y)-8 b(,)32 b(but)27 b(b)s(ecause)g(of)h(its)h(wide)e
(use)390 4251 y(it)34 b(is)f(still)h(fully)f(supp)s(orted.)47
b(If)32 b(y)m(ou)i(wish)e(to)i(allo)m(w)h(users)d(to)i(pro)m(vid)e)f(a)h
(string)f(that)g(sp)s(ecify)390 4361 y(whic)m(h)23 b(ciphers)f(to)i
(use)f(\(whic)m(h)g(is)g(recommended\),)h(y)m(ou)g(should)e(use)g
Fs(gnutls_priority_set_)390 4470 y(direct(\))28 b FB(or)i

Fs(gnutls_priority_set\(\))25 b FB(instead.)390 4602
 y Fn>Returns:40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
 b(success,)f(or)h(an)f(error)g(co)s(de.)150 4797 y Fu(gn)m(utls)p
 483 4797 37 5 v 55 w(set)p 690 4797 V 54 w(default)p
 1115 4797 V 54 w(priorit)m(y)3350 4989 y FB([F]-8 b(unction))-3599
 b Fh(int)53 b(gnutls_set_default_pr)q(iori)q(ty)f Fg\(\)p
 Ff(gn)m(utls)p 2098 4989 28 4 v 41 w(session)p 2408 4989
 V 40 w(t)30 b Fe(session)12 b Fg\(\)390 5098 y Ff(session)p
 FB(:)41 b(is)30 b(a)h Fs(gnutls_session_t)26 b FB(structure.)390
 5230 y(Sets)j(some)h(default)f(priorit)m(y)g(on)g(the)g(ciphers,)h(k)m
 (ey)f(exc)m(hange)i(metho)s(ds,)e(mac)s(g(and)g(compres-)390
 5340 y(sion)h(metho)s(ds.)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(173)390 299 y
 Fn(This)28 b(is)f(the)i(same)f(as)g(calling:)40 b FB(gn)m(utls)p
 1738 299 28 4 v 41 w(priorit)m(y)p 2077 299 V 40 w(set)p
 2228 299 V 41 w(direct)28 b\(\(session,)h Fs(")p FB(NORMAL)p
 Fs(")p FB(,)f(NULL\);)390 427 y(This)f(function)h(is)f(k)m(ept)i
 (around)e(for)g(bac)m(kw)m(ards)h(compatibilit)m(y)-8
 b(,)32 b(but)27 b(b)s(ecause)g(of)h(its)h(wide)e(use)390
 536 y(it)34 b(is)f(still)h(fully)f(supp)s(orted.)47 b(If)32
 b(y)m(ou)i(wish)e(to)i(allo)m(w)h(users)d(to)i(pro)m(vid)e(f)a)h(string)
 f(that)g(sp)s(ecify)390 646 y(whic)m(h)23 b(ciphers)f(to)i(use)f
 \((whic)m(h)g(is)g(recommended\),)h(y)m(ou)g(should)e(use)g
 Fs(gnutls_priority_set_)390 756 y(direct\(\))28 b FB(or)i
 Fs(gnutls_priority_set\(\))25 b FB(instead.)390 884 y
 Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h
 (an)f(error)g(co)s(de.)150 1070 y Fu(gn)m(utls)p 483
 1070 37 5 v 55 w(sign)p 749 1070 V 55 w(algorithm)p 1322
 1070 V 54 w(get)p 1541 1070 V 55 w(name)3350 1253 y FB([F]-8
 b(unction))-3599 b Fh(const)54 b(char)f(*)g(gnutls_sign_algorithm_)q
 (get)q(_nam)q(e)565 1363 y Fg\(\)p Ff(gn)m(utls)p 846
 1363 28 4 v 41 w(sign)p 1044 1363 V 40 w(algorithm)p
 1467 1363 V 41 w(t)31 b Fe(sign)12 b Fg\(\)390 1472 y
 Ff(sign)p FB(:)41 b(is)30 b(a)h(sign)f(algorithm)390
 1600 y(Con)m(v)m(ert)h(a)g Fs(gnutls_sign_algorithm_t)24
 b FB(v)-5 b(alue)31 b(to)g(a)g(string.)390 1728 y Fn>Returns:)40
 b FB(a)31 b(string)f(that)h(con)m(tains)h(the)f(name)f(of)h(the)f(sp)s
 (eci)014ed)g(sign)g(algorithm,)i(or)e Fs(NULL)p FB(.)150
 1914 y Fu(gn)m(utls)p 483 1914 37 5 v 55 w(sign)p 749
 1914 V 55 w(callbac)m(k)p 1232 1914 V 52 w(get)3350 2098
 y FB([F]-8 b(unction))-3599 b Fh(gnutls_sign_func)57
 b(gnutls_sign_callback_)q(get)52 b Fg\(\)p Ff(gn)m(utls)p
 2621 2098 28 4 v 41 w(session)p 2931 2098 V 40 w(t)565
 2208 y Fe(session)12 b Ff(,)32 b(v)m(oid)f(**)h Fe(userdata)12
 b Fg\(\)390 2317 y Ff(session)p FB(:)41 b(is)30 b(a)h(gn)m(utls)g
 (session)390 2445 y Ff(userdata)p FB(:)41 b(if)30 b(non-)p

Fs(NULL)p FB(,f(will)i(b)s(e)f(set)h(to)g(abstract)g(callbac)m(k)i(p)s
(oin)m(ter.)390 2573 y(Retrieval)m(e)f(the)f(callbac)m(k)h(function,)
(and)g(its)h(userdata)f(p)s(oin)m(ter.)390 2701 y Fn(Returns:)
51
b FB(The)35 b(function)g(p)s(oin)m(ter)g(set)h(b)m(y)g
Fs(gnutls_sign_callback_se)o(t(\))p FB(,)
30 b(or)36
b(if)f(not)h(set,)390 2811 y Fs(NULL)p FB(,)
150 2997
y Fu(gn)m(utls)p 483 2997 37 5 v 55 w(sign)p 749 2997
V 55 w(callbac)m(k)p 1232 2997 V 52 w(set)3350 3180 y
FB([F]-8 b(unction])-3599 b Fh(void)54 b(gnutls_sign_callback_set)e
Fg(\()p Ff(gn)m(utls)p 1993 3180 28 4 v 41 w(session)p
2303 3180 V 40 w(t)31 b Fe(session)12 b Ff(,)
565 3290
y(gn)m(utls)p 811 3290 V 41 w(sign)p 1009 3290 V 40 w(func)29
b Fe(sign_func)12 b Ff(,)
33 b(v)m(oid)e(*)g Fe(userdata)12
b Fg(\()390 3400 y Ff(session)p FB(:)41 b(is)30 b(a)h(gn)m(utls)g
(session)390 3527 y Ff(sign)p 553 3527 V 40 w(func)6
b FB(:)39 b(function)30 b(p)s(oin)m(ter)h(to)g(application's)h(sign)e
(callbac)m(k.)390 3655 y Ff(userdata)p FB(:)41 b(v)m(oid)31
b(p)s(oin)m(ter)f(that)h(will)g(b)s(e)f(passed)f(to)j(sign)e(callbac)m
(k.)390 3783 y(Set)h(the)f(callbac)m(k)j(function.)40
b(The)30 b(function)g(m)m(ust)g(ha)m(v)m(e)i(this)e(protot)m(yp)s(e):
390 3911 y(t)m(yp)s(edef)107 b(in)m(t)i(\(*gn)m(utls)p
1333 3911 V 41 w(sign)p 1531 3911 V 40 w(func\))e(\(gn)m(utls)p
2158 3911 V 41 w(session)p 2468 3911 V 40 w(t)h(session,)127
b(v)m(oid)108 b(*userdata,)390 4021 y(gn)m(utls)p 636
4021 V 40 w(cert\014cate)p 1063 4021 V 43 w(t)m(yp)s(e)p
1280 4021 V 40 w(t)119 b(cert)p 1625 4021 V 41 w(t)m(yp)s(e,)142
b(const)119 b(gn)m(utls)p 2573 4021 V 41 w(datum)p 2872
4021 V 39 w(t)h(*)f(cert,)142 b(const)390 4130 y(gn)m(utls)p
636 4130 V 40 w(datum)p 934 4130 V 40 w(t)31 b(*)f(hash,)g(gn)m(utls)p
1593 4130 V 41 w(datum)p 1892 4130 V 39 w(t)h(*)g(signature\):)390
4258 y(The)j Fs(userdata)e FB(parameter)j(is)f(passed)g(to)h(the)g
Fs(sign_func)d FB(v)m(erbatim,)k(and)e(can)h(b)s(e)f(used)f(to)390
4368 y(store)23 b(application-sp)s(eci\014c)g(data)g(needed)e(in)h(the)
g(callbac)m(k)j(function.)38 b(See)22 b(also)h Fs(gnutls_sign_)390
4478 y(callback_get(\))p FB(,)
150 4664 y Fu(gn)m(utls)p
483 4664 37 5 v 55 w(sign)p 749 4664 V 55 w(get)p 969
4664 V 54 w(id)3350 4847 y FB([F]-8 b(unction])-3599
b Fh(gnutls_sign_algorithm_)q(t)58 b(gnutls_sign_get_id)51
b Fg(\()p Ff(const)31 b(c)m(har)g(*)g Fe(name)12 b Fg(\()390
4957 y Ff(name)5 b FB(:)41 b(is)30 b(a)h(MA)m(C)g(algorithm)g(name)390
5085 y(The)f(names)g(are)h(compared)f(in)g(a)h(case)h(insensitiv)m(e)f
(w)m(a)m(y)-8 b(,)
390 5213 y Fn(Returns:)
55 b FB(return)37
b(a)h Fs(gnutls_sign_algorithm_t)31 b FB(v)-5 b(alue)39
b(corresp)s(onding)d(to)j(the)f(sp)s(eci\014ed)390 5322
y(cipher,)30 b(or)h Fs(GNUTLS_SIGN_UNKNOWN)25 b FB(on)30
b(error.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(174)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(sign)p 749 299 V 55
w(get)p 969 299 V 54 w(name)3350 486 y FB([F]-8 b(unction))-3599
b Fh(const)54 b(char)f(*)g(gnutls_sign_get_name)e Fg(\()p
Ff(gn)m(utls)p 2202 486 28 4 v 41 w(sign)p 2400 486 V
40 w(algorithm)p 2823 486 V 41 w(t)565 596 y Fe(algorithm)12
b Fg(\()390 705 y Ff(algorithm)p FB(:)42 b(is)30 b(a)h(public)f(k)m(ey)
h(signature)f(algorithm)390 835 y(Con)m(v)m(ert)h(a)g
Fs(gnutls_sign_algorithm_t)24 b FB(v)-5 b(alue)31 b(to)g(a)g(string.)
390 964 y Fn(Returns:)61 b FB(a)40 b(p)s(oin)m(ter)h(to)g(a)g(string)f
(that)h(con)m(tains)h(the)f(name)f(of)h(the)g(sp)s(eci\014ed)e(public)h
(k)m(ey)390 1074 y(signature)31 b(algorithm,)g(or)g Fs(NULL)p
FB(.)390 1204 y Fn(Since:)41 b FB(2.6.0)150 1393 y Fu(gn)m(utls)p
483 1393 37 5 v 55 w(sign)p 749 1393 V 55 w(list)3350
1580 y FB([F]-8 b(unction))-3599 b Fh(const)54 b
(gnutls_sign_algorithm_t)59 b(*)53 b(gnutls_sign_list)d
Fg(\()31 b Fe(void)12 b Fg(\()390 1690 y FB(Get)31 b(a)g(list)g(of)g
(supp)s(orted)d(public)i(k)m(ey)h(signature)g(algorithms.)390
1820 y Fn(Returns:)38 b FB(a)27 b(zero-terminated)h(list)e(of)h
Fs(gnutls_sign_algorithm_t)19 b FB(in)m(tergers)28 b(indicating)f(the)
390 1929 y(a)m(v)-5 b(ailable)33 b(ciphers.)150 2119
y Fu(gn)m(utls)p 483 2119 V 55 w(srp)p 704 2119 V 54
w(allo)s(cate)p 1169 2119 V 54 w(clien)m(t)p 1515 2119
V 53 w(creden)m(tials)3350 2306 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_srp_allocate_c)q(lien)q(t_c)q(red)q(ent)q(ials)565
2416 y Fg(\()p Ff(gn)m(utls)p 846 2416 28 4 v 41 w(srp)p
1010 2416 V 39 w(clien)m(t)p 1262 2416 V 41 w(creden)m(tials)p
1724 2416 V 42 w(t)31 b(*)f Fe(sc)12 b Fg(\()390 2525
y Ff(sc)6 b FB(:)40 b(is)31 b(a)g(p)s(oin)m(ter)f(to)h(a)g
Fs(gnutls_srp_server_creden)o(tia)o(ls_t)24 b FB(structure.)390
2655 y(This)31 b(structure)g(is)h(complex)g(enough)f(to)i(manipulate)f
(directly)g(th)m(us)f(this)h(help)s(er)f(function)g(is)390
2764 y(pro)m(vided)f(in)g(order)g(to)h(allo)s(cate)i(it.)390
2894 y Fn(Returns:)40 b FB(On)30 b(success,)h Fs(GNUTLS_E_SUCCESS)26
b FB(\(0\))31 b(is)g(returned,)e(or)h(an)h(error)f(co)s(de.)150
3084 y Fu(gn)m(utls)p 483 3084 37 5 v 55 w(srp)p 704
3084 V 54 w(allo)s(cate)p 1169 3084 V 54 w(serv)m(er)p
1545 3084 V 54 w(creden)m(tials)3350 3271 y FB([F]-8
b(unction))-3599 b Fh(int)53 b(gnutls_srp_allocate_s)q(erve)q(r_c)q
(red)q(ent)q(ials)565 3380 y Fg(\()p Ff(gn)m(utls)p 846
3380 28 4 v 41 w(srp)p 1010 3380 V 39 w(serv)m(er)p 1282
3380 V 40 w(creden)m(tials)p 1743 3380 V 42 w(t)30 b(*)h
Fe(sc)12 b Fg(\()390 3490 y Ff(sc)6 b FB(:)40 b(is)31
b(a)g(p)s(oin)m(ter)f(to)h(a)g Fs(gnutls_srp_server_creden)o(tia)o
(ls_t)24 b FB(structure.)390 3620 y(This)31 b(structure)g(is)h(complex)
g(enough)f(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f
(function)g(is)390 3729 y(pro)m(vided)f(in)g(order)g(to)h(allo)s(cate)i
(it.)390 3859 y Fn(Returns:)40 b FB(On)30 b(success,)h

Fs(GNUTLS_E_SUCCESS)26 b FB(\(0\))31 b(is)g(returned,e(or)h(an)h
 (error)f(co)s(de.)150 4049 y Fu(gn)m(utls)p 483 4049
 37 5 v 55 w(srp)p 704 4049 V 54 w(base64)p 1112 4049
 V 55 w(deco)s(de)p 1534 4049 V 55 w(allo)s(c)3350 4236
 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_srp_base64_dec)q(ode_)
 q(all)q(oc)f Fg(\()p Ff(const)31 b(gn)m(utls)p 2493 4236
 28 4 v 40 w(datum)p 2791 4236 V 40 w(t)g(*)565 4345 y
 Fe(b64_data)12 b Ff(,)33 b(gn)m(utls)p 1297 4345 V 40
 w(datum)p 1595 4345 V 40 w(t)d(*)h Fe(result)12 b Fg(\()390
 4455 y Ff(b64)p 537 4455 V 40 w(data)p FB(:)42 b(con)m(tains)31
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 b(the)30 b(place)i(where)d(deco)s(ded)h(data)h(lie)390
 4714 y(This)23 b(function)g(will)h(deco)s(de)f(the)h(giv)m(en)g(enco)s
 (ded)g(data.)39 b(The)23 b(deco)s(ded)g(data)h(will)g(b)s(e)f(allo)s
 (cated,)390 4824 y(and)30 b(stored)g(in)m(to)i(result.)40
 b(It)31 b(will)f(deco)s(de)h(using)f(the)g(base64)i(algorithm)f(as)g
 (used)e(in)h(libsrp.)390 4953 y(Y)-8 b(ou)31 b(should)e(use)h
 Fs(gnutls_free\(\))d FB(to)k(free)g(the)f(returned)f(data.)390
 5083 y(W)-8 b(arning!)46 b(This)31 b(base64)i(enco)s(ding)f(is)g(not)g
 (the)h Fs("")p FB(standard)p Fs("")d FB(enco)s(ding,)j(so)f(do)g(not)g
 (use)g(it)g(for)390 5193 y(non-SRP)d(purp)s(oses.)390
 5322 y Fn>Returns:)40 b FB(0)31 b(on)f(success,)h(or)g(an)f(error)g(co)
 s(de.)p eop end
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 Fu(gn)m(utls)p 483 299 37 5 v 55 w(srp)p 704 299 V 54
 w(base64)p 1112 299 V 55 w(deco)s(de)3350 503 y FB([F]-8
 b(unction))-3599 b Fh(int)53 b(gnutls_srp_base64_dec)q(ode)f
 Fg(\()p Ff(const)31 b(gn)m(utls)p 2179 503 28 4 v 41
 w(datum)p 2478 503 V 39 w(t)g(*)g Fe(b64_data)12 b Ff(,)565
 612 y(c)m(har)31 b(*)g Fe(result)12 b Ff(,)32 b(size)p
 1369 612 V 40 w(t)f(*)g Fe(result_size)12 b Fg(\()390
 722 y Ff(b64)p 537 722 V 40 w(data)p FB(:)42 b(con)m(tain)32
 b(the)e(enco)s(ded)g(data)390 863 y Ff(result)r FB(:)41
 b(the)30 b(place)i(where)d(deco)s(ded)h(data)h(will)g(b)s(e)f(copied)
 390 1005 y Ff(result)p 619 1005 V 40 w(size)5 b FB(:)42
 b(holds)30 b(the)g(size)h(of)g(the)f(result)390 1146
 y(This)k(function)g(will)h(deco)s(de)g(the)g(giv)m(en)h(enco)s(ded)e
 (data,)j(using)d(the)h(base64)h(enco)s(ding)e(found)390
 1256 y(in)c(libsrp.)390 1397 y(Note)i(that)f(b64)p 954
 1397 V 40 w(data)g(should)f(b)s(e)f(n)m(ull)i(terminated.)390
 1539 y(W)-8 b(arning!)46 b(This)31 b(base64)i(enco)s(ding)f(is)g(not)g
 (the)h Fs("")p FB(standard)p Fs("")d FB(enco)s(ding,)j(so)f(do)g(not)g
 (use)g(it)g(for)390 1648 y(non-SRP)d(purp)s(oses.)390
 1790 y Fn>Returns:)40 b Fs(GNUTLS_E_SHORT_MEMORY_BUF)o(FER)24
 b FB(if)30 b(the)g(bu\013er)f(giv)m(en)i(is)g(not)f(long)h(enough,)f
 (or)390 1900 y(0)h(on)f(success.)150 2106 y Fu(gn)m(utls)p

483 2106 37 5 v 55 w(srp)p 704 2106 V 54 w(base64)p 1112
2106 V 55 w(enco)s(de)p 1534 2106 V 55 w(allo)s(c)3350
2310 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_srp_base64_enc)q
(ode_)q(all)q(oc)f Fg(\()p Ff(const)31 b(gn)m(utls)p
2493 2310 28 4 v 40 w(datum)p 2791 2310 V 40 w(t)g(*)565
2419 y Fe(data)12 b Ff(,)31 b(gn)m(utls)p 1087 2419 V
41 w(datum)p 1386 2419 V 39 w(t)g(*)g Fe(result)12 b
Fg(\()390 2529 y Ff(data)p FB(:)41 b(con)m(tains)32 b(the)f(ra)m(w)f
(data)390 2670 y Ff(result)r FB(:)41 b(will)30 b(hold)g(the)h(newly)f
(allo)s(cated)i(enco)s(ded)e(data)390 2812 y(This)22
b(function)h(will)h(con)m(v)m(ert)h(the)e(giv)m(en)h(data)g(to)g(prin)m
(table)g(data,)h(using)e(the)g(base64)i(enco)s(ding.)390
2921 y(This)42 b(is)i(the)f(enco)s(ding)g(used)f(in)h(SRP)g(passw)m
(ord)f(\014les.)79 b(This)43 b(function)g(will)g(allo)s(cate)j(the)390
3031 y(required)30 b(memory)g(to)h(hold)f(the)h(enco)s(ded)f(data.)390
3172 y(Y)-8 b(ou)31 b(should)e(use)h Fs(gnutls_free\()\d
FB(to)k(free)g(the)f(returned)f(data.)390 3314 y(W)-8
b(arning!)46 b(This)31 b(base64)i(enco)s(ding)f(is)g(not)g(the)h
Fs("")p FB(standard)p Fs("")d FB(enco)s(ding,)j(so)f(do)g(not)g(use)g(it)
g(for)390 3423 y(non-SRP)d(purp)s(oses.)390 3565 y Fn>Returns:)40
b FB(0)31 b(on)f(success,)h(or)g(an)f(error)g(co)s(de.)150
3771 y Fu(gn)m(utls)p 483 3771 37 5 v 55 w(srp)p 704
3771 V 54 w(base64)p 1112 3771 V 55 w(enco)s(de)3350
3975 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_srp_base64_enc)q
(ode)f Fg(\()p Ff(const)31 b(gn)m(utls)p 2179 3975 28
4 v 41 w(datum)p 2478 3975 V 39 w(t)g(*)g Fe(data)12
b Ff(,)31 b(c)m(har)g(*)565 4085 y Fe(result)12 b Ff(,)32
b(size)p 1093 4085 V 41 w(t)f(*)f Fe(result_size)12 b
Fg(\()390 4194 y Ff(data)p FB(:)41 b(con)m(tain)32 b(the)f(ra)m(w)f
(data)390 4336 y Ff(result)r FB(:)41 b(the)30 b(place)i(where)d(base64)
j(data)f(will)g(b)s(e)e(copied)390 4477 y Ff(result)p
619 4477 V 40 w(size)5 b FB(:)42 b(holds)30 b(the)g(size)h(of)g(the)f
(result)390 4619 y(This)22 b(function)h(will)h(con)m(v)m(ert)h(the)e
(giv)m(en)h(data)g(to)g(prin)m(table)g(data,)h(using)e(the)g(base64)i
(enco)s(ding.)390 4728 y(as)h(used)e(in)i(the)f(libsrp.)38
b(This)25 b(is)g(the)h(enco)s(ding)f(used)g(in)g(SRP)g(passw)m(ord)g
(\014les.)39 b(If)25 b(the)g(pro)m(vided)390 4838 y(bu\013er)k(is)i
(not)f(long)h(enough)f(GNUTLS)p 1800 4838 V 40 w(E)p
1902 4838 V 40 w(SHOR)-8 b(T)p 2257 4838 V 39 w(MEMOR)g(Y)p
2722 4838 V 41 w(BUFFER)32 b(is)e(returned.)390 4979
y(W)-8 b(arning!)46 b(This)31 b(base64)i(enco)s(ding)f(is)g(not)g(the)h
Fs("")p FB(standard)p Fs("")d FB(enco)s(ding,)j(so)f(do)g(not)g(use)g(it)
g(for)390 5089 y(non-SRP)d(purp)s(oses.)390 5230 y Fn>Returns:)40
b Fs(GNUTLS_E_SHORT_MEMORY_BUF)o(FER)24 b FB(if)30 b(the)g(bu\013er)f
(giv)m(en)i(is)g(not)h(long)h(enough,)f(or)390 5340 y(0)h(on)f
(success.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(176)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(srp)p 704 299 V 54
w(free)p 957 299 V 55 w(clien)m(t)p 1304 299 V 53 w(creden)m(tials)3350
505 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
(gnutls_srp_free_client_c)q(red)q(ent)q(ial)q(s)565 615
y Fg(\()p Ff(gn)m(utls)p 846 615 28 4 v 41 w(srp)p 1010
615 V 39 w(clien)m(t)p 1262 615 V 41 w(creden)m(tials)p
1724 615 V 42 w(t)31 b Fe(sc)12 b Fg(\()390 724 y Ff(sc)6
b FB(:)40 b(is)31 b(a)g Fs(gnutls_srp_client_cred)o(anti)o(als_)o(t)24
b FB(structure.)390 868 y(This)31 b(structure)g(is)h(complex)g(enough)f
(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f(function)g
(is)390 978 y(pro)m(vided)f(in)g(order)g(to)h(free)g(\(deallo)s(cate\))
i(it.)150 1186 y Fu(gn)m(utls)p 483 1186 37 5 v 55 w(srp)p
704 1186 V 54 w(free)p 957 1186 V 55 w(serv)m(er)p 1334
1186 V 54 w(creden)m(tials)3350 1393 y FB([F]-8 b(unction))-3599
b Fh(void)54 b(gnutls_srp_free_server_c)q(red)q(ent)q(ial)q(s)565
1502 y Fg(\()p Ff(gn)m(utls)p 846 1502 28 4 v 41 w(srp)p
1010 1502 V 39 w(serv)m(er)p 1282 1502 V 40 w(creden)m(tials)p
1743 1502 V 42 w(t)30 b Fe(sc)12 b Fg(\()390 1612 y Ff(sc)6
b FB(:)40 b(is)31 b(a)g Fs(gnutls_srp_server_cred)o(anti)o(als_)o(t)24
b FB(structure.)390 1756 y(This)31 b(structure)g(is)h(complex)g(enough)
f(to)i(manipulate)f(directly)g(th)m(us)f(this)h(help)s(er)f(function)g
(is)390 1865 y(pro)m(vided)f(in)g(order)g(to)h(free)g(\(deallo)s
(cate\))i(it.)150 2074 y Fu(gn)m(utls)p 483 2074 37 5
v 55 w(srp)p 704 2074 V 54 w(serv)m(er)p 1080 2074 V
54 w(get)p 1299 2074 V 54 w(username)3350 2280 y FB([F]-8
b(unction))-3599 b Fh(const)54 b(char)f(*)g(gnutls_srp_server_get_)q
(use)q(rnam)q(e)e Fg(\()p Ff(gn)m(utls)p 2725 2280 28
4 v 41 w(session)p 3035 2280 V 40 w(t)565 2390 y Fe(session)12
b Fg(\()390 2499 y Ff(session)p FB(:)41 b(is)30 b(a)h(gn)m(utls)g
(session)390 2643 y(This)26 b(function)g(will)h(return)e(the)i
(username)f(of)h(the)f(p)s(eer.)39 b(This)26 b(should)f(only)i(b)s(e)f
(called)i(in)e(case)390 2753 y(of)31 b(SRP)e(authen)m(tication)k(and)c
(in)h(case)i(of)e(a)h(serv)m(er.)41 b>Returns)30 b(NULL)g(in)g(case)h
(of)g(an)f(error.)390 2897 y Fn>Returns:)40 b FB(SRP)30
b(username)g(of)g(the)h(p)s(eer,)f(or)g(NULL)h(in)f(case)h(of)g(error.)
150 3106 y Fu(gn)m(utls)p 483 3106 37 5 v 55 w(srp)p
704 3106 V 54 w(set)p 910 3106 V 54 w(clien)m(t)p 1256
3106 V 54 w(creden)m(tials)p 1884 3106 V 53 w(function)3350
3312 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
(gnutls_srp_set_client_cr)q(ede)q(anti)q(als)q(_fun)q(cti)q(on)565
3421 y Fg(\()p Ff(gn)m(utls)p 846 3421 28 4 v 41 w(srp)p
1010 3421 V 39 w(clien)m(t)p 1262 3421 V 41 w(creden)m(tials)p
1724 3421 V 42 w(t)31 b Fe(cred)12 b Ff(,)31 b(gn)m(utls)p
2348 3421 V 40 w(srp)p 2511 3421 V 39 w(clien)m(t)p 2763
3421 V 42 w(creden)m(tials)p 3226 3421 V 41 w(function)f(*)565
3531 y Fe(func)12 b Fg(\()390 3641 y Ff(cred)t FB(:)40
b(is)31 b(a)f Fs(gnutls_srp_server_cred)o(ials)o(_t)24

b FB(structure.)390 3784 y Ff(func)6 b FB(:)39 b(is)31
b(the)f(callbac)m(k)j(function)390 3928 y(This)26 b(function)g(can)h(b)
s(e)e(used)h(to)h(set)g(a)g(callbac)m(k)i(to)e(retriev)m(e)h(the)f
(username)f(and)f(passw)m(ord)h(for)390 4038 y(clien)m(t)32
b(SRP)e(authen)m(tication.)390 4182 y(The)g(callbac)m(k's)i(function)f
(form)e(is:)390 4326 y(in)m(t)i(\(*callbac)m(k)\)(gn)m(utls)p
1241 4326 V 44 w(session)p 1554 4326 V 40 w(t,)g(c)m(har**)h(username,)
e(c)m(har**passw)m(ord);)390 4470 y(The)j Fs(username)e
FB(and)i Fs(password)f FB(m)m(ust)h(b)s(e)g(allo)s(cated)j(using)d
Fs(gnutls_malloc(\))p FB(.)46 b Fs(username)390 4579
y FB(and)30 b Fs(password)e FB(should)h(b)s(e)h(ASCII)s(I)f(strings)h
(or)g(UTF-8)h(strings)f(prepared)g(using)f(the)i Fs("")p
FB(SASL-)390 4689 y(pre)p Fs("")e FB(pro\014le)h(of)h
Fs("")p FB(stringprep)p Fs("")p FB(.)390 4833 y(The)20
b(callbac)m(k)j(function)e(will)g(b)s(e)f(called)i(once)g(p)s(er)d
(handshak)m(e)i(b)s(efore)f(the)h(initial)h(hello)g(message)390
4943 y(is)30 b(sen)m(t.)390 5086 y(The)c(callbac)m(k)i(should)d(not)h
(return)f(a)i(negativ)m(e)h(error)d(co)s(de)i(the)f(second)g(time)h
(called,)h(since)f(the)390 5196 y(handshak)m(e)j(pro)s(cedure)f(will)i
(b)s(e)f(ab)s(orted.)390 5340 y(The)g(callbac)m(k)i(function)e(should)g
(return)f(0)i(on)f(success.)41 b(-1)31 b(indicates)g(an)g(error.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(177)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(srp)p 704 299 V 54
w(set)p 910 299 V 54 w(clien)m(t)p 1256 299 V 54 w(creden)m(tials)3350
483 y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_srp_set_client)q
(_cre)q(den)q(tia)q(ls)565 592 y Fg(\()p Ff(gn)m(utls)p
846 592 28 4 v 41 w(srp)p 1010 592 V 39 w(clien)m(t)p
1262 592 V 41 w(creden)m(tials)p 1724 592 V 42 w(t)31
b Fe(res)12 b Ff(,)31 b(const)f(c)m(har)h(*)g Fe(username)12
b Ff(,)33 b(const)d(c)m(har)h(*)565 702 y Fe(password)12
b Fg(\)390 811 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs
(gnutls_srp_client_credenti)o(als_)o(t)24 b FB(structure.)390
940 y Ff(username)5 b FB(:)40 b(is)31 b(the)f(user's)g(userid)390
1068 y Ff(passw)m(ord)t FB(:)40 b(is)30 b(the)h(user's)e(passw)m(ord)
390 1196 y(This)75 b(function)h(sets)g(the)g(username)g(and)f(passw)m
(ord,)87 b(in)76 b(a)g Fs(gnutls_srp_client_)390 1305
y(credentials_t)27 b FB(structure.)40 b(Those)30 b(will)h(b)s(e)e(used)
h(in)g(SRP)g(authen)m(tication.)42 b Fs(username)29 b
FB(and)390 1415 y Fs(password)d FB(should)i(b)s(e)g(ASCII)s(I)f(strings)
i(or)g(UTF-8)g(strings)g(prepared)e(using)i(the)g Fs("")p
FB(SASLprep)p Fs("")390 1524 y FB(pro\014le)h(of)h Fs("")p
FB(stringprep)p Fs("")p FB(.)390 1652 y Fn>Returns:)40
b FB(On)30 b(success,)h Fs(GNUTLS_E_SUCCESS)26 b FB(\(0\))31
b(is)g(returned,)e(or)h(an)h(error)f(co)s(de.)150 1839
y Fu(gn)m(utls)p 483 1839 37 5 v 55 w(srp)p 704 1839

V 54 w(set)p 910 1839 V 54 w(prime)p 1274 1839 V 55 w(bits)3350
2023 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
(gnutls_srp_set_prime_bit)q(s)e Fg(\()p Ff(gn)m(utls)p
2046 2023 28 4 v 40 w(session)p 2355 2023 V 41 w(t)30
b Fe(session)12 b Ff(,)565 2132 y(unsigned)29 b(in)m(t)i
Fe(bits)12 b Fg(\()390 2242 y Ff(session)p FB(:)41 b(is)30
b(a)h Fs(gnutls_session_t)26 b FB(structure.)390 2370
y Ff(bits)t FB(:)40 b(is)31 b(the)f(n)m(um)m(b)s(er)f(of)i(bits)390
2498 y(This)42 b(function)g(sets)h(the)f(minim)m(um)g(accepted)i(n)m
(um)m(b)s(er)d(of)i(bits,)i(for)e(use)f(in)g(an)g(SRP)g(k)m(ey)390
2607 y(exc)m(hange.)g(lf)30 b(zero,)i(the)e(default)h(2048)h(bits)e
(will)h(b)s(e)f(used.)390 2735 y(In)39 b(the)i(clien)m(t)g(side)g(it)f
(sets)h(the)f(minim)m(um)g(accepted)h(n)m(um)m(b)s(er)e(of)h(bits.)70
b(lf)40 b(a)g(serv)m(er)h(sends)390 2845 y(a)h(prim)e)f(with)g(less)h
(bits)f(than)g(that)h Fs(GNUTLS_E_RECEIVED_ILLEGA)o(L_PA)o(RAME)o(TER)
35 b FB(will)42 b(b)s(e)390 2955 y(returned)29 b(b)m(y)h(the)h
(handshak)m(e.)390 3083 y(This)f(function)g(has)g(no)g(e\013ect)i(in)e
(serv)m(er)h(side.)390 3211 y Fn(Since:)41 b FB(2.6.0)150
3397 y Fu(gn)m(utls)p 483 3397 37 5 v 55 w(srp)p 704
3397 V 54 w(set)p 910 3397 V 54 w(serv)m(er)p 1286 3397
V 54 w(creden)m(tials)p 1914 3397 V 54 w(\014le)3350
3581 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_srp_set_server)q
(_cre)q(den)q(tia)q(ls_)q(file)565 3691 y Fg(\()p Ff(gn)m(utls)p
846 3691 28 4 v 41 w(srp)p 1010 3691 V 39 w(serv)m(er)p
1282 3691 V 40 w(creden)m(tials)p 1743 3691 V 42 w(t)30
b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)g(*)g Fe(password_file)12
b Ff(,)34 b(const)d(c)m(har)565 3800 y(*)g Fe(password_conf_file)12
b Fg(\()390 3910 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs
(gnutls_srp_server_credenti)o(als_)o(t)24 b FB(structure.)390
4038 y Ff(passw)m(ord)p 759 4038 V 39 w(\014le)5 b FB(:)41
b(is)31 b(the)f(SRP)g(passw)m(ord)g(\014le)g(\(tpasswd\))390
4166 y Ff(passw)m(ord)p 759 4166 V 39 w(conf)p 962 4166
V 41 w(\014le)5 b FB(:)40 b(is)31 b(the)f(SRP)g(passw)m(ord)g(conf)g
(\014le)h(\(tpasswd.conf)7 b(\))390 4294 y(This)23 b(function)g(sets)i
(the)f(passw)m(ord)f(\014les,)i(in)f(a)g Fs(gnutls_srp_server_cred)o
(ntia)o(ls_t)17 b FB(struc-)390 4403 y(ture.)67 b(Those)39
b(passw)m(ord)f(\014les)i(hold)e(usernames)h(and)f(v)m(eri\014ers)i
(and)e(will)i(b)s(e)e(used)h(for)g(SRP)390 4513 y(authen)m(tication.)
390 4641 y Fn>Returns:)h FB(On)30 b(success,)h Fs(GNUTLS_E_SUCCESS)26
b FB(\(0\))31 b(is)g(returned,)e(or)h(an)h(error)f(co)s(de.)150
4827 y Fu(gn)m(utls)p 483 4827 37 5 v 55 w(srp)p 704
4827 V 54 w(set)p 910 4827 V 54 w(serv)m(er)p 1286 4827
V 54 w(creden)m(tials)p 1914 4827 V 54 w(function)3350
5011 y FB([F]-8 b(unction))-3599 b Fh(void)54 b
(gnutls_srp_set_server_cr)q(ede)q(anti)q(als)q(_fun)q(cti)q(on)565
5121 y Fg(\()p Ff(gn)m(utls)p 846 5121 28 4 v 41 w(srp)p
1010 5121 V 39 w(serv)m(er)p 1282 5121 V 40 w(creden)m(tials)p
1743 5121 V 42 w(t)30 b Fe(cred)12 b Ff(,)32 b(gn)m(utls)p

2367 5121 V 40 w(srp)p 2530 5121 V 39 w(serv)m(er)p 2802
5121 V 40 w(creden)m(tials)p 3263 5121 V 42 w(function)e(*)565
5230 y Fe(func)12 b Fg(\)390 5340 y Ff(cred)t FB(:)40
b(is)31 b(a)f Fs(gnutls_srp_server_credent)o(ials)o(_t)24
b FB(structure.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(178)390 299 y
Ff(func)6 b FB(:)39 b(is)31 b(the)f(callbac)m(k)j(function)390
434 y(This)24 b(function)g(can)h(b)s(e)f(used)g(to)h(set)g(a)g(callbac)
m(k)i(to)e(retriev)m(e)h(the)f(user's)e(SRP)h(creden)m(tials.)40
b(The)390 544 y(callbac)m(k's)h(function)e(form)g(is:)58
b(in)m(t)40 b(\(*callbac)m(k)\)(gn)m(utls)p 2401 544
28 4 v 44 w(session)p 2714 544 V 40 w(t,ji(const)d(c)m(har*)h
(username,)390 653 y(gn)m(utls)p 636 653 V 40 w(datum)p
934 653 V 40 w(t*)32 b(salt,)h(gn)m(utls)p 1525 653 V
40 w(datum)p 1823 653 V 40 w(t)e(*v)m(eri\014er,)i(gn)m(utls)p
2545 653 V 40 w(datum)p 2843 653 V 40 w(t*)f(g,)g(gn)m(utls)p
3337 653 V 41 w(datum)p 3636 653 V 39 w(t*)390 763 y(n\):)390
898 y Fs(username)25 b FB(con)m(tains)k(the)f(actual)h(username.)39
b(The)28 b Fs(salt)p FB(,)f Fs(verifier)p FB(,)f Fs(generator)f
FB(and)i Fs(prime)390 1008 y FB(m)m(ust)g(b)s(e)g(\014lled)h(in)f
(using)g(the)h Fs(gnutls_malloc(\))p FB(.)35 b(F)-8
b(or)29 b(con)m(v)m(enience)g Fs(prime)e FB(and)f Fs(generator)390
1117 y FB(ma)m(y)31 b(also)g(b)s(e)f(one)h(of)f(the)h(static)h
(parameters)e(de\014ned)g(in)g(extra.h.)390 1253 y(In)39
b(case)j(the)e(callbac)m(k)i(returned)d(a)i(negativ)m(e)h(n)m(um)m(b)s
(er)d(then)h(gn)m(utls)h(will)f(assume)g(that)h(the)390
1362 y(username)30 b(do)s(es)g(not)g(exist.)390 1497
y(In)f(order)h(to)h(prev)m(en)m(t)f(attach)m(ment)s)j(from)d(guessing)g
(v)-5 b(alid)30 b(usernames,)g(if)g(a)h(user)e(do)s(es)h(not)g(exist,)
390 1607 y(g)f(and)g(n)f(v)-5 b(alues)30 b(should)e(b)s(e)g(\014lled)h
(in)g(using)f(a)i(random)e(user's)g(parameters.)41 b(In)28
b(that)i(case)g(the)390 1717 y(callbac)m(k)i(m)m(ust)f(return)e(the)i
(sp)s(ecial)g(v)-5 b(alue)30 b(\(1\).)390 1852 y(The)g(callbac)m(k)k
(function)c(will)h(only)h(b)s(e)e(called)i(once)g(p)s(er)e(handshak)m
(e.)42 b(The)30 b(callbac)m(k)j(function)390 1961 y(should)c(return)h
(0)g(on)h(success,)g(while)f(-1)h(indicates)g(an)g(error.)150
2161 y Fu(gn)m(utls)p 483 2161 37 5 v 55 w(srp)p 704
2161 V 54 w(v)m(eri\014er)3350 2359 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_srp_verifier)e Fg(\(p Ff(const)32
b(c)m(har)e(*)h Fe(username)12 b Ff(,)33 b(const)e(c)m(har)f(*)565
2468 y Fe(password)12 b Ff(,)33 b(const)e(gn)m(utls)p
1535 2468 28 4 v 40 w(datum)p 1833 2468 V 39 w(t)g(*)g
Fe(salt)12 b Ff(,)31 b(const)g(gn)m(utls)p 2768 2468
V 40 w(datum)p 3066 2468 V 40 w(t)g(*)f Fe(generator)12
b Ff(,)565 2578 y(const)31 b(gn)m(utls)p 1049 2578 V
40 w(datum)p 1347 2578 V 40 w(t)g(*)f Fe(prime)12 b Ff(,)32

b(gn)m(utls)p 2097 2578 V 40 w(datum)p 2395 2578 V 40
w(t)f(*)f Fe(res)12 b Fg(\))390 2688 y Ff(username)5
b FB(:)40 b(is)31 b(the)f(user's)g(name)390 2823 y Ff(passw)m(ord)t
FB(:)40 b(is)30 b(the)h(user's)e(passw)m(ord)390 2958
y Ff(salt)r FB(:)42 b(should)29 b(b)s(e)h(some)g(randomly)g(generated)i
(b)m(ytes)390 3093 y Ff(generator)7 b FB(:)41 b(is)31
b(the)f(generator)i(of)e(the)h(group)390 3229 y Ff(prime)5
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(function)g(for)g(gn)m(utls)h(to)g(b)s(e)f(able)h(to)g(send)f(data.)390
2867 y(PUSH)p 645 2867 V 40 w(FUNC)56 b(is)g(of)h(the)f(form,)63
b(ssize)p 1881 2867 V 40 w(t)57 b(\(*gn)m(utls)p 2333
2867 V 41 w(push)p 2563 2867 V 38 w(func)\(gn)m(utls)p
3081 2867 V 41 w(transp)s(ort)p 3495 2867 V 39 w(ptr)p
3656 2867 V 39 w(t,)390 2976 y(const)31 b(v)m(oid*),h(size)p
1043 2976 V 40 w(t):)150 3221 y FA(9.2)68 b Fu(X.509)46
b FA(Certi\014cate)g(F)-11 b(unctions)150 3380 y FB(The)33
b(follo)m(wing)i(functions)d(are)i(to)g(b)s(e)f(used)f(for)h
Ft(X.509)f FB(cert\014cate)k(handling.)49 b(Their)32
b(protot)m(y)p)s(es)i(lie)150 3490 y(in)c(`)p Fs(gnutls/x509.h)p
FB(.).150 3697 y Fu(gn)m(utls)p 483 3697 37 5 v 55 w(pk)m(cs12)p
893 3697 V 54 w(bag)p 1136 3697 V 54 w(decrypt)3350 3902
y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_pkcs12_bag_dec)q(rypt)
f Fg(\(p Ff(gn)m(utls)p 1993 3902 28 4 v 41 w(pk)m(cs12)p
2296 3902 V 41 w(bag)p 2478 3902 V 41 w(t)30 b Fe(bag)12
b Ff(,)31 b(const)565 4011 y(c)m(har)g(*)g Fe(pass)12
b Fg(\()390 4121 y Ff(bag)c FB(:)41 b(The)30 b(bag)390
4264 y Ff(pass)t FB(:)40 b(The)30 b(passw)m(ord)g(used)f(for)h
(encryption,)h(m)m(ust)f(b)s(e)g(ASCII)s(I.)390 4406 y(This)g(function)g
(will)g(decrypt)g(the)h(giv)m(en)g(encrypted)f(bag)h(and)f(return)f(0)i
(on)f(success.)390 4549 y Fn>Returns:)42 b FB(On)30 b(success,)i
Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i
(an)f(error)g(co)s(de)390 4658 y(is)f(returned.)150 4865
y Fu(gn)m(utls)p 483 4865 37 5 v 55 w(pk)m(cs12)p 893
4865 V 54 w(bag)p 1136 4865 V 54 w(deinit)3350 5070 y
FB([F]-8 b(unction])-3599 b Fh(void)54 b(gnutls_pkcs12_bag_deinit)e
Fg(\(p Ff(gn)m(utls)p 1993 5070 28 4 v 41 w(pk)m(cs12)p
2296 5070 V 41 w(bag)p 2478 5070 V 41 w(t)30 b Fe(bag)12
b Fg(\()390 5180 y Ff(bag)c FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)e
(initialized)390 5322 y(This)h(function)g(will)g(deinitialize)j(a)e(PK)
m(CS12)f(Bag)i(structure.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(182)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(pk)m(cs12)p 893 299
V 54 w(bag)p 1136 299 V 54 w(encrypt)3350 517 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_pkcs12_bag_enc)q(rypt)f
Fg(\(p Ff(gn)m(utls)p 1993 517 28 4 v 41 w(pk)m(cs12)p
2296 517 V 41 w(bag)p 2478 517 V 41 w(t)30 b Fe(bag)12
b Ff(,)31 b(const)565 626 y(c)m(har)g(*)g Fe(pass)12
b Ff(,)31 b(unsigned)e(in)m(t)i Fe(flags)12 b Fg(\()390
736 y Ff(bag)c FB(:)41 b(The)30 b(bag)390 891 y Ff(pass)t
FB(:)40 b(The)30 b(passw)m(ord)g(used)f(for)h(encryption,)h(m)m(ust)f
(b)s(e)g(ASCII)s(I)390 1047 y Ff(\015ags)t FB(:)41 b(should)29

b(b)s(e)h(one)g(of)h Fs(gnutls_pkcs_encrypt_flag)o(s_t)24
b FB(elemen)m(ts)32 b(bit)m(wise)f(or)d)390 1202 y(This)f(function)g
(will)g(encrypt)g(the)h(giv)m(en)g(bag.)390 1358 y Fn>Returns:)42
b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
1467 y(is)f(returned.)150 1688 y Fu(gn)m(utls)p 483 1688
37 5 v 55 w(pk)m(cs12)p 893 1688 V 54 w(bag)p 1136 1688
V 54 w(get)p 1355 1688 V 54 w(coun)m(t)3350 1905 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_bag_get)q(_cou)q(nt)f
Fg(\()p Ff(gn)m(utls)p 2098 1905 28 4 v 41 w(pk)m(cs12)p
2401 1905 V 41 w(bag)p 2583 1905 V 40 w(t)31 b Fe(bag)12
b Fg(\()390 2015 y Ff(bag)c FB(:)41 b(The)30 b(bag)390
2170 y(This)g(function)g(will)g(return)g(the)g(n)u(m)m(b)s(er)f(of)i
(the)f(elemen)m(ts)i(withing)e(the)h(bag.)390 2326 y
Fn>Returns:)40 b FB(Num)m(b)s(er)30 b(of)g(elemen)m(ts)i(in)e(bag,)h
(or)f(an)h(negativ)m(e)h(error)e(co)s(de)h(on)f(error.)150
2546 y Fu(gn)m(utls)p 483 2546 37 5 v 55 w(pk)m(cs12)p
893 2546 V 54 w(bag)p 1136 2546 V 54 w(get)p 1355 2546
V 54 w(data)3350 2764 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_pkcs12_bag_get)q(_dat)q(a)f Fg(\()p Ff(gn)m(utls)p
2046 2764 28 4 v 40 w(pk)m(cs12)p 2348 2764 V 41 w(bag)p
2530 2764 V 41 w(t)31 b Fe(bag)12 b Ff(,)31 b(in)m(t)565
2873 y Fe(indx)12 b Ff(,)31 b(gn)m(utls)p 1087 2873 V
41 w(datum)p 1386 2873 V 39 w(t)g(*)g Fe(data)12 b Fg(\()390
2983 y Ff(bag)c FB(:)41 b(The)30 b(bag)390 3138 y Ff(indx)6
b FB(:)40 b(The)30 b(elemen)m(t)i(of)e(the)h(bag)g(to)g(get)g(the)g
(data)g(from)390 3294 y Ff(data)p FB(:)41 b(where)30
b(the)h(bag's)g(data)g(will)f(b)s(e.)41 b(Should)29 b(b)s(e)g(treated)j
(as)e(constan)m(t.)390 3449 y(This)k(function)g(will)h(return)e(the)i
(bag's)g(data.)54 b(The)34 b(data)h(is)g(a)g(constan)m(t)h(that)f(is)f
(stored)h(in)m(to)390 3559 y(the)c(bag.)41 b(Should)29
b(not)h(b)s(e)g(accessed)i(after)f(the)f(bag)h(is)f(deleted.)390
3714 y Fn>Returns:)73 b FB(On)47 b(success,)k Fs(GNUTLS_E_SUCCESS)42
b FB(is)47 b(returned,)k(otherwise)c(a)g(negativ)m(e)i(error)390
3824 y(v)-5 b(alue.and)31 b(a)f(negativ)m(e)j(error)d(co)s(de)g(on)h
(error.)150 4044 y Fu(gn)m(utls)p 483 4044 37 5 v 55
w(pk)m(cs12)p 893 4044 V 54 w(bag)p 1136 4044 V 54 w(get)p
1355 4044 V 54 w(friendly)p 1821 4044 V 55 w(name)3350
4262 y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_bag_get)q
(_fri)q(end)q(ly_)q(nam)q(e)e Fg(\()p Ff(gn)m(utls)p
2516 4262 28 4 v 41 w(pk)m(cs12)p 2819 4262 V 41 w(bag)p
3001 4262 V 41 w(t)565 4372 y Fe(bag)12 b Ff(,)31 b(in)m(t)g
Fe(indx)12 b Ff(,)31 b(c)m(har)g(**)g Fe(name)12 b Fg(\()390
4481 y Ff(bag)c FB(:)41 b(The)30 b(bag)390 4637 y Ff(indx)6
b FB(:)40 b(The)30 b(bag's)h(elemen)m(t)h(to)f(add)f(the)g(id)390
4792 y Ff(name)5 b FB(:)41 b(will)31 b(hold)f(a)g(p)s(oin)m(ter)h(to)g
(the)f(name)h(\(to)g(b)s(e)f(treated)h(as)g(const\))390
4948 y(This)c(function)g(will)h(return)f(the)h(friendly)f(name,)i(of)f

(the)f(sp)s(eci\014ed)h(bag)g(elemen)m(t.)41 b(The)27
b(k)m(ey)i(ID)390 5057 y(is)h(usually)h(used)e(to)i(distinguish)f(the)g
(lo)s(cal)i(priv)-5 b(ate)31 b(k)m(ey)g(and)f(the)g(cert\014cate)j
(pair.)390 5213 y Fn>Returns:)j FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)390 5322 y(or)30
b(a)h(negativ)m(e)i(v)-5 b(alue)31 b(on)f(error.)p eop
end
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b(F)-8 b(unction)31 b(Reference)2237 b(183)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(pk)m(cs12)p 893 299
V 54 w(bag)p 1136 299 V 54 w(get)p 1355 299 V 54 w(k)m(ey)p
1592 299 V 53 w(id)3350 500 y FB([F)-8 b(unction)]-3599
b Fh(int)53 b(gnutls_pkcs12_bag_get)q(_key)q(_id)f Fg(\()p
Ff(gn)m(utls)p 2150 500 28 4 v 41 w(pk)m(cs12)p 2453
500 V 41 w(bag)p 2635 500 V 40 w(t)31 b Fe(bag)12 b Ff(,)31
b(in)m(t)565 609 y Fe(indx)12 b Ff(,)31 b(gn)m(utls)p
1087 609 V 41 w(datum)p 1386 609 V 39 w(t)g(*)g Fe(id)12
b Fg(\)390 719 y Ff(bag)c FB(:)41 b(The)30 b(bag)390
857 y Ff(indx)6 b FB(:)40 b(The)30 b(bag's)h(elemen)m(t)h(to)f(add)f
(the)g(id)390 996 y Ff(id)t FB(:)40 b(where)30 b(the)g(ID)h(will)g(b)s
(e)e(copied)i(\(to)h(b)s(e)d(treated)j(as)e(const\))390
1134 y(This)39 b(function)g(will)g(return)g(the)g(k)m(ey)h(ID,)g(of)g
(the)g(sp)s(eci\014ed)e(bag)i(elemen)m(t.)69 b(The)39
b(k)m(ey)h(ID)g(is)390 1244 y(usually)30 b(used)g(to)h(distinguish)e
(the)i(lo)s(cal)h(priv)-5 b(ate)30 b(k)m(ey)i(and)d(the)i
(cert\014cate)h(pair.)390 1382 y Fn>Returns:)k FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)390 1492 y(or)30
b(a)h(negativ)m(e)i(v)-5 b(alue)31 b(on)f(error.)150
1695 y Fu(gn)m(utls)p 483 1695 37 5 v 55 w(pk)m(cs12)p
893 1695 V 54 w(bag)p 1136 1695 V 54 w(get)p 1355 1695
V 54 w(t)m(yp)s(e)3350 1896 y FB([F)-8 b(unction)]-3599
b Fh(gnutls_pkcs12_bag_type)q(_t)59 b(gnutls_pkcs12_bag_get_t)q(yp)e565
2005 y Fg(\()p Ff(gn)m(utls)p 846 2005 28 4 v 41 w(pk)m(cs12)p
1149 2005 V 41 w(bag)p 1331 2005 V 40 w(t)31 b Fe(bag)12
b Ff(,)31 b(in)m(t)g Fe(indx)12 b Fg(\)390 2115 y Ff(bag)c
FB(:)41 b(The)30 b(bag)390 2253 y Ff(indx)6 b FB(:)40
b(The)30 b(elemen)m(t)i(of)e(the)h(bag)g(to)g(get)g(the)g(t)m(yp)s(e)
390 2392 y(This)f(function)g(will)g(return)g(the)g(bag's)h(t)m(yp)s(e.)
390 2530 y Fn>Returns:)40 b FB(One)30 b(of)h(the)f Fs
(gnutls_pkcs12_bag_type_t)24 b FB(en)m(umerations.)150
2733 y Fu(gn)m(utls)p 483 2733 37 5 v 55 w(pk)m(cs12)p
893 2733 V 54 w(bag)p 1136 2733 V 54 w(init)3350 2934
y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_bag_ini)q(t)e
Fg(\()p Ff(gn)m(utls)p 1836 2934 28 4 v 41 w(pk)m(cs12)p
2139 2934 V 41 w(bag)p 2321 2934 V 41 w(t)30 b(*)h Fe(bag)12

b Fg(\))390 3044 y Ff(bag)c FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)e
(initialized)390 3182 y(This)j(function)g(will)g(initialize)j(a)e(PK)m
(CS12)f(bag)h(structure.)46 b(PK)m(CS12)32 b(Bags)i(usually)e(con)m
(tain)390 3292 y(priv)-5 b(ate)31 b(k)m(ey.s.)g(lists)g(of)f(X.509)j
(Certi\014cate)s(e)andf(X.509)i(Certi\014cate)g(rev)m(o)s(cation)g
(lists.)390 3430 y Fn>Returns:)k FB(On)20 b(success.,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 3634 y Fu(gn)m(utls)p
483 3634 37 5 v 55 w(pk)m(cs12)p 893 3634 V 54 w(bag)p
1136 3634 V 54 w(set)p 1342 3634 V 54 w(crl)3350 3834
y FB([F)d(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_bag_set)q(_crl)f
Fg(\()p Ff(gn)m(utls)p 1993 3834 28 4 v 41 w(pk)m(cs12)p
2296 3834 V 41 w(bag)p 2478 3834 V 41 w(t)30 b Fe(bag)12
b Ff(,)565 3944 y(gn)m(utls)p 811 3944 V 41 w(x509)p
1035 3944 V 41 w(crl)p 1177 3944 V 40 w(t)31 b Fe(crl)12
b Fg(\))390 4053 y Ff(bag)c FB(:)41 b(The)30 b(bag)390
4192 y Ff(crl)t FB(:)40 b(the)31 b(CRL)f(to)h(b)s(e)f(copied.)390
4330 y(This)37 b(function)h(will)h(insert)f(the)h(giv)m(en)g(CRL)f(in)m
(to)h(the)f(bag.)65 b(This)37 b(is)i(just)e(a)i(wrapp)s(er)e(o)m(v)m
(er)390 4440 y Fs(gnutls_pkcs12_bag_set_da)o(ta\(\))o
FB(.)390 4578 y Fn>Returns:)j FB(the)31 b(index)f(of)g(the)h(added)f
(bag)g(on)h(success.)g(or)f(a)h(negativ)m(e)h(v)-5 b(alue)31
b(on)f(failure.)150 4782 y Fu(gn)m(utls)p 483 4782 37
5 v 55 w(pk)m(cs12)p 893 4782 V 54 w(bag)p 1136 4782
V 54 w(set)p 1342 4782 V 54 w(crt)3350 4982 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_bag_set)q(_crt)f
Fg(\()p Ff(gn)m(utls)p 1993 4982 28 4 v 41 w(pk)m(cs12)p
2296 4982 V 41 w(bag)p 2478 4982 V 41 w(t)30 b Fe(bag)12
b Ff(,)565 5092 y(gn)m(utls)p 811 5092 V 41 w(x509)p
1035 5092 V 41 w(crt)p 1187 5092 V 40 w(t)31 b Fe(crt)12
b Fg(\))390 5202 y Ff(bag)c FB(:)41 b(The)30 b(bag)390
5340 y Ff(crt)r FB(:)41 b(the)31 b(cert\014cate)h(to)f(b)s(e)f
(copied.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(184)390 299 y(This)25
b(function)g(will)i(insert)e(the)h(giv)m(en)h(cert\014cate)h(in)m(to)f
(the)f(bag.)39 b(This)25 b(is)h(just)f(a)i(wrapp)s(er)d(o)m(v)m(m(er)390
408 y Fs(gnutls_pkcs12_bag_set_da)o(ta\(\))o FB(.)390
545 y Fn>Returns:)40 b FB(the)31 b(index)f(of)g(the)h(added)f(bag)g(on)
h(success.)g(or)f(a)h(negativ)m(e)h(v)-5 b(alue)31 b(on)f(failure.)150
746 y Fu(gn)m(utls)p 483 746 37 5 v 55 w(pk)m(cs12)p
893 746 V 54 w(bag)p 1136 746 V 54 w(set)p 1342 746 V
54 w(data)3350 944 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_pkcs12_bag_set)q(_dat)q(a)f Fg(\()p Ff(gn)m(utls)p
2046 944 28 4 v 40 w(pk)m(cs12)p 2348 944 V 41 w(bag)p
2530 944 V 41 w(t)31 b Fe(bag)12 b Ff(,)565 1054 y(gn)m(utls)p
811 1054 V 41 w(pk)m(cs12)p 1114 1054 V 41 w(bag)p 1296

1054 V 40 w(t)m(yp)s(e)p 1510 1054 V 40 w(t)31 b Fe(type)12
b Ff(,)31 b(const)g(gn)m(utls)p 2370 1054 V 41 w(datum)p
2669 1054 V 39 w(t)g(*)g Fe(data)12 b Fg(\\)390 1164
y Ff(bag)c FB(:)41 b(The)30 b(bag)390 1300 y Ff(t)m(yp)s(e)5
b FB(:)41 b(The)30 b(data's)h(t)m(yp)s(e)390 1436 y Ff(data)p
FB(:)41 b(the)31 b(data)g(to)g(b)s(e)f(copied.)390 1573
y(This)g(function)g(will)g(insert)h(the)f(giv)m(en)i(data)f(of)f(the)h
(giv)m(en)g(t)m(yp)s(e)g(in)m(to)g(the)g(bag.)390 1709
y Fn>Returns:)40 b FB(the)31 b(index)f(of)g(the)h(added)f(bag)g(on)h
(success,)g(or)f(a)h(negativ)m(e)h(v)-5 b(alue)31 b(on)f(error.)150
1910 y Fu(gn)m(utls)p 483 1910 37 5 v 55 w(pk)m(cs12)p
893 1910 V 54 w(bag)p 1136 1910 V 54 w(set)p 1342 1910
V 54 w(friendly)p 1808 1910 V 55 w(name)3350 2108 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_pkcs12_bag_set)q(_fri)q(end)q
(ly_)q(nam)q(e)e Fg(\\)p Ff(gn)m(utls)p 2516 2108 28
4 v 41 w(pk)m(cs12)p 2819 2108 V 41 w(bag)p 3001 2108
V 41 w(t)565 2218 y Fe(bag)12 b Ff(,)31 b(in)m(t)g Fe(indx)12
b Ff(,)31 b(const)g(c)m(har)g(*)g Fe(name)12 b Fg(\\)390
2328 y Ff(bag)c FB(:)41 b(The)30 b(bag)390 2464 y Ff(indx)6
b FB(:)40 b(The)30 b(bag's)h(elemen)m(t)h(to)f(add)f(the)g(id)390
2600 y Ff(name)5 b FB(:)41 b(the)30 b(name)390 2737 y(This)37
b(function)g(will)h(add)f(the)h(giv)m(en)h(k)m(ey)f(friendly)f(name,)j
(to)f(the)f(sp)s(eci\014ed,)h(b)m(y)e(the)h(index,)390
2846 y(bag)31 b(elemen)m(t.)42 b(The)30 b(name)h(will)f(b)s(e)g(enco)s
(ded)g(as)h(a)g('F)-8 b(riently)31 b(name')f(bag)h(attribute,)h(whic)m
(h)e(is)390 2956 y(usually)g(used)g(to)h(set)g(a)f(user)g(name)h(to)g
(the)f(lo)s(cal)i(priv)-5 b(ate)31 b(k)m(ey)g(and)f(the)g
(certi\014cate)j(pair.)390 3092 y Fn>Returns:)j FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)390 3202 y(or)30
b(a)h(negativ)m(e)i(v)-5 b(alue)31 b(on)f(error.)150
3403 y Fu(gn)m(utls)p 483 3403 37 5 v 55 w(pk)m(cs12)p
893 3403 V 54 w(bag)p 1136 3403 V 54 w(set)p 1342 3403
V 54 w(k)m(ey)p 1579 3403 V 53 w(id)3350 3601 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_pkcs12_bag_set)q(_key)q(_id)f
Fg(\\)p Ff(gn)m(utls)p 2150 3601 28 4 v 41 w(pk)m(cs12)p
2453 3601 V 41 w(bag)p 2635 3601 V 40 w(t)31 b Fe(bag)12
b Ff(,)31 b(in)m(t)565 3711 y Fe(indx)12 b Ff(,)31 b(const)g(gn)m(utls)
p 1325 3711 V 41 w(datum)p 1624 3711 V 39 w(t)g(*)g Fe(id)12
b Fg(\\)390 3820 y Ff(bag)c FB(:)41 b(The)30 b(bag)390
3957 y Ff(indx)6 b FB(:)40 b(The)30 b(bag's)h(elemen)m(t)h(to)f(add)f
(the)g(id)390 4093 y Ff(id)t FB(:)40 b(the)31 b(ID)390
4229 y(This)g(function)g(will)h(add)e(the)i(giv)m(en)h(k)m(ey)f(ID,)g
(to)g(the)g(sp)s(eci\014ed,)f(b)m(y)g(the)h(index,)f(bag)h(elemen)m(t.)
390 4339 y(The)d(k)m(ey)h(ID)g(will)g(b)s(e)f(enco)s(ded)g(as)g(a)h
(Lo)s(cal)h(k)m(ey)f(iden)m(ti\014er')g(bag)g(attribute,)g(whic)m(h)g
(is)f(usually)390 4449 y(used)h(to)h(distinguish)e(the)i(lo)s(cal)h
(priv)-5 b(ate)30 b(k)m(ey)h(and)f(the)h(certi\014cate)h(pair.)390

4585 y Fn(Returns:)k FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 4694 y(or)30 b(a)h(negativ)m(e)i(v)-5 b(alue)31
b(on)f(error.)150 4896 y Fu(gn)m(utls)p 483 4896 37 5
v 55 w(pk)m(cs12)p 893 4896 V 54 w(deinit)3350 5094 y
FB([F]-8 b(unction)]-3599 b Fh(void)54 b(gnutls_pkcs12_deinit)d
Fg(\()p Ff(gn)m(utls)p 1784 5094 28 4 v 41 w(pk)m(cs12)p
2087 5094 V 41 w(t)31 b Fe(pkcs12)12 b Fg(\))390 5204
y Ff(pk)m(cs12)7 b FB(:)42 b(The)30 b(structure)g(to)h(b)s(e)f
(initialized)390 5340 y(This)g(function)g(will)g(deinitialize)j(a)e(PK)
m(CS12)f(structure.)p eop end
%%Page: 185 191
TeXDict begin 185 190 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(185)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(pk)m(cs12)p 893 299
V 54 w(exp)s(ort)3350 498 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_pkcs12_export)f Fg(\()p Ff(gn)m(utls)p
1732 498 28 4 v 40 w(pk)m(cs12)p 2034 498 V 42 w(t)30
b Fe(pkcs12)12 b Ff(,)565 608 y(gn)m(utls)p 811 608 V
41 w(x509)p 1035 608 V 41 w(crt)p 1187 608 V 40 w(fm)m(t)p
1363 608 V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(v)m(oid)f(*)g
Fe(output_data)12 b Ff(,)33 b(size)p 2906 608 V 41 w(t)e(*)565
717 y Fe(output_data_size)12 b Fg(\))390 827 y Ff(pk)m(cs12)7
b FB(:)42 b(Holds)31 b(the)f(pk)m(cs12)i(structure)390
963 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 1100 y Ff(output)p
664 1100 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(a)e(structure)g
(PEM)h(or)f(DER)g(enco)s(ded)390 1237 y Ff(output)p 664
1237 V 40 w(data)p 880 1237 V 40 w(size)5 b FB(:)49 b(holds)34
b(the)g(size)h(of)f(output)p 2093 1237 V 39 w(data)h(\(and)f(will)g(b)s
(e)f(replaced)i(b)m(y)e(the)i(actual)390 1347 y(size)c(of)g
(parameters\))390 1483 y(This)f(function)g(will)g(exp)s(ort)g(the)h(pk)
m(cs12)g(structure)f(to)h(DER)g(or)f(PEM)h(format.)390
1620 y(If)f(the)h(bu\013er)f(pro)m(vided)g(is)g(not)h(long)h(enough)e
(to)h(hold)g(the)f(output,)h(then)f(*output)p 3357 1620
V 40 w(data)p 3573 1620 V 41 w(size)390 1730 y(will)h(b)s(e)e(up)s
(dated)h(and)f(GNUTLS)p 1605 1730 V 40 w(E)p 1707 1730
V 40 w(SHOR)-8 b(T)p 2062 1730 V 39 w(MEMOR)g(Y)p 2527
1730 V 41 w(BUFFER)31 b(will)g(b)s(e)f(returned.)390
1867 y(If)g(the)g(structure)g(is)h(PEM)f(enco)s(ded,)g(it)h(will)g(ha)m
(v)m(e)h(a)e(header)h(of)h Fs(")p FB(BEGIN)h(PK)m(CS12)p
Fs(")p FB(.)390 2003 y Fn(Return)f(v)-5 b(alue:)41 b
FB(In)30 b(case)h(of)g(failure)f(a)h(negativ)m(e)i(v)-5
b(alue)30 b(will)h(b)s(e)f(returned,)f(and)h(0)h(on)f(success.)150
2205 y Fu(gn)m(utls)p 483 2205 37 5 v 55 w(pk)m(cs12)p
893 2205 V 54 w(generate)p 1402 2205 V 54 w(mac)3350
2404 y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_generat)q
(e_ma)q(c)f Fg(\()p Ff(gn)m(utls)p 2046 2404 28 4 v 40

w(pk)m(cs12)p 2348 2404 V 41 w(t)31 b Fe(pkcs12)12 b
Ff(,)32 b(const)565 2513 y(c)m(har)f(*)g Fe(pass)12 b
Fg(\)390 2623 y Ff(pk)m(cs12)7 b FB(:)42 b(should)29
b(con)m(tain)j(a)f(gn)m(utls)p 1657 2623 V 40 w(pk)m(cs12)p
1959 2623 V 41 w(t)g(structure)390 2760 y Ff(pass)t FB(:)40
b(The)30 b(passw)m(ord)g(for)g(the)g(MA)m(C)390 2897
y(This)g(function)g(will)g(generate)i(a)f(MA)m(C)g(for)f(the)h(PK)m
(CS12)f(structure.)390 3033 y Fn>Returns:)36 b FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 3235 y Fu(gn)m(utls)p
483 3235 37 5 v 55 w(pk)m(cs12)p 893 3235 V 54 w(get)p
1112 3235 V 54 w(bag)3350 3434 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_pkcs12_get_bag)f Fg(\()p Ff(gn)m(utls)p
1784 3434 28 4 v 41 w(pk)m(cs12)p 2087 3434 V 41 w(t)31
b Fe(pkcs12)12 b Ff(,)31 b(in)m(t)g Fe(indx)12 b Ff(,)565
3544 y(gn)m(utls)p 811 3544 V 41 w(pk)m(cs12)p 1114 3544
V 41 w(bag)p 1296 3544 V 40 w(t)31 b Fe(bag)12 b Fg(\)390
3653 y Ff(pk)m(cs12)7 b FB(:)42 b(should)29 b(con)m(tain)j(a)f(gn)m
(utls)p 1657 3653 V 40 w(pk)m(cs12)p 1959 3653 V 41 w(t)g(structure)390
3790 y Ff(indx)6 b FB(:)40 b(con)m(tains)32 b(the)e(index)g(of)h(the)f
(bag)h(to)g(extract)390 3927 y Ff(bag)8 b FB(:)41 b(An)30
b(initialized)i(bag,)f(where)f(the)g(con)m(ten)m(ts)j(of)d(the)h(bag)f
(will)h(b)s(e)f(copied)390 4064 y(This)g(function)g(will)g(return)g(a)g
(Bag)i(from)e(the)g(PK)m(CS12)h(structure.)390 4200 y
Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 4337 y(After)21 b(the)f(last)h(Bag)h(has)e(b)s(een)f(read)h
(GNUTLS)p 2037 4337 V 40 w(E)p 2139 4337 V 40 w(REQUESTED)p
2757 4337 V 39 w(D)m(A)-8 b(T)g(A)p 3048 4337 V 42 w(NOT)p
3295 4337 V 39 w(A)e(V)g(AILABLE)390 4447 y(will)31 b(b)s(e)
(returned.)150 4648 y Fu(gn)m(utls)p 483 4648 37 5 v
55 w(pk)m(cs12)p 893 4648 V 54 w(imp)s(ort)3350 4847
y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_import)f
Fg(\()p Ff(gn)m(utls)p 1732 4847 28 4 v 40 w(pk)m(cs12)p
2034 4847 V 42 w(t)30 b Fe(pkcs12)12 b Ff(,)32 b(const)565
4957 y(gn)m(utls)p 811 4957 V 41 w(datum)p 1110 4957
V 39 w(t)f(*)g Fe(data)12 b Ff(,)31 b(gn)m(utls)p 1807
4957 V 40 w(x509)p 2030 4957 V 42 w(crt)p 2183 4957 V
40 w(fm)m(t)p 2359 4957 V 40 w(t)g Fe(format)12 b Ff(,)32
b(unsigned)d(in)m(t)i Fe(flags)12 b Fg(\)390 5066 y
Ff(pk)m(cs12)7 b FB(:)42 b(The)30 b(structure)g(to)h(store)g(the)f
(parsed)g(PK)m(CS12.)390 5203 y Ff(data)p FB(:)41 b(The)30
b(DER)h(or)f(PEM)h(enco)s(ded)f(PK)m(CS12.)390 5340 y
Ff(format)r FB(:)41 b(One)30 b(of)g(DER)h(or)f(PEM)p
eop end
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TeXDict begin 186 191 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(186)390 299 y

Ff(\015ags)t FB(:)41 b(an)30 b(ORed)g(sequence)h(of)f(gn)m(utls)p
1748 299 28 4 v 40 w(privk)m(ey)p 2081 299 V 41 w(pk)m(cs8)p
2339 299 V 40 w(\015ags)390 431 y(This)38 b(function)g(will)g(con)m(v)m
(ert)i(the)f(giv)m(en)g(DER)g(or)f(PEM)g(enco)s(ded)g(PK)m(CS12)h(to)g
(the)g(nativ)m(e)390 541 y(gn)m(utls)p 636 541 V 40 w(pk)m(cs12)p
938 541 V 42 w(t)30 b(format.)41 b(The)30 b(output)g(will)h(b)s(e)f
(stored)g(in)g('pk)m(cs12'.)390 673 y(If)g(the)g(PK)m(CS12)h(is)f(PEM)h
(enco)s(ded)f(it)h(should)e(ha)m(v)m(e)j(a)e(header)h(of)f
Fs(")p FB(PK)m(CS12)p Fs(")p FB(.)390 806 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1001 y Fu(gn)m(utls)p 483 1001 37 5 v 55
w(pk)m(cs12)p 893 1001 V 54 w(init)3350 1194 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_pkcs12_init)e Fg(\()p Ff(gn)m(utls)p
1627 1194 28 4 v 41 w(pk)m(cs12)p 1930 1194 V 41 w(t)31
b(*)f Fe(pkcs12)12 b Fg(\()390 1304 y Ff(pk)m(cs12)7
b FB(:)42 b(The)30 b(structure)g(to)h(b)s(e)f(initialized)390
1436 y(This)f(function)g(will)h(initialize)i(a)e(PK)m(CS12)g
(structure.)40 b(PK)m(CS12)29 b(structures)g(usually)h(con)m(tain)390
1546 y(lists)h(of)f(X.509)j(Certi\014cates)e(and)f(X.509)i
(Certi\014cate)g(rev)m(o)s(cation)g(lists.)390 1678 y
Fn>Returns:)k FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1873 y Fu(gn)m(utls)p 483 1873 37 5 v 55
w(pk)m(cs12)p 893 1873 V 54 w(set)p 1099 1873 V 54 w(bag)3350
2066 y FB([F)d(unction)]-3599 b Fh(int)53 b(gnutls_pkcs12_set_bag)f
Fg(\()p Ff(gn)m(utls)p 1784 2066 28 4 v 41 w(pk)m(cs12)p
2087 2066 V 41 w(t)31 b Fe(pkcs12)12 b Ff(,)565 2176
y(gn)m(utls)p 811 2176 V 41 w(pk)m(cs12)p 1114 2176 V
41 w(bag)p 1296 2176 V 40 w(t)31 b Fe(bag)12 b Fg(\()390
2285 y Ff(pk)m(cs12)7 b FB(:)42 b(should)29 b(con)m(tain)j(a)f(gn)m
(utls)p 1657 2285 V 40 w(pk)m(cs12)p 1959 2285 V 41 w(t)g(structure)390
2418 y Ff(bag)8 b FB(:)41 b(An)30 b(initialized)i(bag)390
2550 y(This)e(function)g(will)g(insert)h(a)f(Bag)i(in)m(to)f(the)g(PK)m
(CS12)f(structure.)390 2683 y Fn>Returns:)36 b FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 2878 y Fu(gn)m(utls)p
483 2878 37 5 v 55 w(pk)m(cs12)p 893 2878 V 54 w(v)m(erify)p
1251 2878 V 54 w(mac)3350 3071 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_pkcs12_verify_)q(mac)f Fg(\()p Ff(gn)m(utls)p
1941 3071 28 4 v 41 w(pk)m(cs12)p 2244 3071 V 41 w(t)30
b Fe(pkcs12)12 b Ff(,)32 b(const)f(c)m(har)565 3180 y(*)g
Fe(pass)12 b Fg(\()390 3290 y Ff(pk)m(cs12)7 b FB(:)42
b(should)29 b(con)m(tain)j(a)f(gn)m(utls)p 1657 3290
V 40 w(pk)m(cs12)p 1959 3290 V 41 w(t)g(structure)390
3423 y Ff(pass)t FB(:)40 b(The)30 b(passw)m(ord)g(for)g(the)g(MA)m(C)
390 3555 y(This)g(function)g(will)g(v)m(erify)h(the)g(MA)m(C)g(for)f
(the)g(PK)m(CS12)h(structure.)390 3688 y Fn>Returns:)36

b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3883 y Fu(gn)m(utls)p 483 3883 37 5 v 55
w(pk)m(cs7)p 832 3883 V 53 w(deinit)3350 4076 y FB([F)d(unction)]-3599
b Fh(void)54 b(gnutls_pkcs7_deinit)d Fg(\()p Ff(gn)m(utls)p
1732 4076 28 4 v 40 w(pk)m(cs7)p 1989 4076 V 41 w(t)31
b Fe(pkcs7)12 b Fg(\)390 4185 y Ff(pk)m(cs7)7 b FB(:)42
b(The)29 b(structure)h(to)h(b)s(e)f(initialized)390 4318
y(This)g(function)g(will)g(deinitialize)j(a)e(PK)m(CS7)f(structure.)150
4513 y Fu(gn)m(utls)p 483 4513 37 5 v 55 w(pk)m(cs7)p
832 4513 V 53 w(delete)p 1203 4513 V 54 w(crl)3350 4706
y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs7_delete_c)q(rl)f
Fg(\()p Ff(gn)m(utls)p 1889 4706 28 4 v 40 w(pk)m(cs7)p
2146 4706 V 41 w(t)31 b Fe(pkcs7)12 b Ff(,)31 b(in)m(t)g
Fe(indx)12 b Fg(\)390 4815 y Ff(pk)m(cs7)7 b FB(:)42
b(should)29 b(con)m(tain)j(a)e Fs(gnutls_pkcs7_t)d FB(structure)390
4948 y Ff(indx)6 b FB(:)40 b(the)31 b(index)f(of)g(the)h(crl)f(to)h
(delete)390 5080 y(This)g(function)h(will)h(delete)g(a)f(crl)h(from)e
(a)i(PK)m(CS7)f(or)g(RF)m(C2630)i(crl)e(set.)47 b(Index)31
b(starts)h(from)390 5190 y(0.)41 b>Returns)30 b(0)g(on)h(success.)390
5322 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
%%Page: 187 193
TeXDict begin 187 192 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(187)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(pk)m(cs7)p 832 299
V 53 w(delete)p 1203 299 V 54 w(crt)3350 491 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_pkcs7_delete_c)q(rl)f
Fg(\()p Ff(gn)m(utls)p 1889 491 28 4 v 40 w(pk)m(cs7)p
2146 491 V 41 w(t)31 b Fe(pkcs7)12 b Ff(,)31 b(in)m(t)g
Fe(indx)12 b Fg(\)390 601 y Ff(pk)m(cs7)7 b FB(:)42
b(should)29 b(con)m(tain)j(a)e(gn)m(utls)p 1611 601 V
41 w(pk)m(cs7)p 1869 601 V 41 w(t)g(structure)390 733
y Ff(indx)6 b FB(:)40 b(the)31 b(index)f(of)g(the)h(certi\014cate)h(to)
f(delete)390 866 y(This)23 b(function)h(will)g(delete)i(a)e
(certi\014cate)i(from)e(a)g(PK)m(CS7)g(or)g(RF)m(C2630)i(certi\014cate)
h(set.)39 b(Index)390 975 y(starts)31 b(from)f(0.)41
b>Returns)29 b(0)i(on)f(success.)390 1107 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1302 y Fu(gn)m(utls)p 483 1302 37 5 v 55
w(pk)m(cs7)p 832 1302 V 53 w(exp)s(ort)3350 1495 y FB([F)d(unction)]
-3599 b Fh(int)53 b(gnutls_pkcs7_export)e Fg(\()p Ff(gn)m(utls)p
1679 1495 28 4 v 41 w(pk)m(cs7)p 1937 1495 V 41 w(t)31
b Fe(pkcs7)12 b Ff(,)565 1604 y(gn)m(utls)p 811 1604
V 41 w(x509)p 1035 1604 V 41 w(crt)p 1187 1604 V 40 w(fm)m(t)p
1363 1604 V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(v)m(oid)f(*)g

Fe(output_data)12 b Ff(,)33 b(size)p 2906 1604 V 41 w(t)e(*)565
1714 y Fe(output_data_size)12 b Fg(\))390 1824 y Ff(pk)m(cs7)7
b FB(:)42 b(Holds)30 b(the)h(pk)m(cs7)g(structure)390
1956 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 2088 y Ff(output)p
664 2088 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(a)e(structure)g
(PEM)h(or)f(DER)g(enco)s(ded)390 2220 y Ff(output)p 664
2220 V 40 w(data)p 880 2220 V 40 w(size)5 b FB(:)49 b(holds)34
b(the)g(size)h(of)f(output)p 2093 2220 V 39 w(data)h(\(and)f(will)g(b)s
(e)f(replaced)i(b)m(y)e(the)i(actual)390 2330 y(size)c(of)g
(parameters\))390 2462 y(This)f(function)g(will)g(exp)s(ort)g(the)h(pk)
m(cs7)g(structure)f(to)h(DER)g(or)f(PEM)g(format.)390
2595 y(If)23 b(the)g(bu\013er)f(pro)m(vided)g(is)h(not)h(long)f(enough)
g(to)h(hold)f(the)g(output,)h(then)f(*)p Fs(output_data_size)390
2704 y FB(is)30 b(up)s(dated)f(and)h Fs(GNUTLS_E_SHORT_MEMORY_BUF)o
(FER)24 b FB(will)31 b(b)s(e)e(returned.)390 2837 y(If)h(the)g
(structure)g(is)h(PEM)f(enco)s(ded,)g(it)h(will)g(ha)m(v)m(e)h(a)e
(header)h(of)f Fs("")p FB(BEGIN)h(PK)m(CS7)p Fs("")p FB(.)390
2969 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3164 y Fu(gn)m(utls)p 483 3164 37 5 v 55
w(pk)m(cs7)p 832 3164 V 53 w(get)p 1050 3164 V 55 w(crl)p
1244 3164 V 53 w(coun)m(t)3350 3356 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_pkcs7_get_crl_)q(coun)q(t)f Fg(\))p
Ff(gn)m(utls)p 2046 3356 28 4 v 40 w(pk)m(cs7)p 2303
3356 V 41 w(t)31 b Fe(pkcs7)12 b Fg(\))390 3466 y Ff(pk)m(cs7)7
b FB(:)42 b(should)29 b(con)m(tain)j(a)e(gn)m(utls)p
1611 3466 V 41 w(pk)m(cs7)p 1869 3466 V 41 w(t)g(structure)390
3598 y(This)c(function)h(will)h(return)e(the)i(n)m(um)m(b)s(er)e(of)h
(certificates)j(in)d(the)g(PK)m(CS7)g(or)g(RF)m(C2630)j(crl)d(set.)390
3730 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3925 y Fu(gn)m(utls)p 483 3925 37 5 v 55
w(pk)m(cs7)p 832 3925 V 53 w(get)p 1050 3925 V 55 w(crl)p
1244 3925 V 53 w(ra)m(w)3350 4118 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_pkcs7_get_crl_)q(raw)f Fg(\))p Ff(gn)m(utls)p
1941 4118 28 4 v 41 w(pk)m(cs7)p 2199 4118 V 40 w(t)31
b Fe(pkcs7)12 b Ff(,)32 b(in)m(t)f Fe(indx)12 b Ff(,)565
4227 y(v)m(oid)31 b(*)g Fe(crl)12 b Ff(,)31 b(size)p
1209 4227 V 41 w(t)f(*)h Fe(crl_size)12 b Fg(\))390 4337
y Ff(pk)m(cs7)7 b FB(:)42 b(should)29 b(con)m(tain)j(a)e
Fs(gnutls_pkcs7_t)d FB(structure)390 4469 y Ff(indx)6
b FB(:)40 b(con)m(tains)32 b(the)e(index)g(of)h(the)f(crl)h(to)g
(extract)390 4602 y Ff(crl)t FB(:)40 b(the)31 b(con)m(ten)m(ts)h(of)f
(the)f(crl)h(will)g(b)s(e)e(copied)i(there)g(\(ma)m(y)g(b)s(e)f(n)m
(ull\))390 4734 y Ff(crl)p 497 4734 V 40 w(size)5 b FB(:)42
b(should)29 b(hold)h(the)h(size)g(of)g(the)f(crl)390
4866 y(This)g(function)g(will)g(return)g(a)g(crl)h(of)f(the)h(PK)m(CS7)

f(or)g(RF)m(C2630)j(crl)d(set.)390 4999 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 5108 y(If)38 b(the)h(pro)m(vided)g(bu\013er)f(is)h(not)g
(long)g(enough,)i(then)e Fs(crl_size)d FB(is)j(up)s(dated)f(and)g
Fs(GNUTLS_)390 5218 y(E_SHORT_MEMORY_BUFFER)d FB(is)41
b(returned.)71 b(After)41 b(the)g(last)g(crl)g(has)g(b)s(een)f(read)g
Fs(GNUTLS_E_)390 5327 y(REQUESTED_DATA_NOT_AVAIL)o(ABLE)24
b FB(will)30 b(b)s(e)g(returned.)p eop end
%%Page: 188 194
TeXDict begin 188 193 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(188)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(pk)m(cs7)p 832 299
V 53 w(get)p 1050 299 V 55 w(crt)p 1258 299 V 53 w(coun)m(t)3350
510 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_pkcs7_get_crt_)q
(coun)q(t)f Fg(\()p Ff(gn)m(utls)p 2046 510 28 4 v 40
w(pk)m(cs7)p 2303 510 V 41 w(t)31 b Fe(pkcs7)12 b Fg(\()390
619 y Ff(pk)m(cs7)7 b FB(:)42 b(should)29 b(con)m(tain)j(a)e
Fs(gnutls_pkcs7_t)d FB(structure)390 768 y(This)g(function)h(will)g
(return)f(the)h(n)m(um)m(b)s(er)e(of)i(certificates)i(in)e(the)g(PK)m
(CS7)f(or)h(RF)m(C2630)i(cert\014-)390 877 y(cate)i(set.)390
1026 y Fn>Returns:)k FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1239 y Fu(gn)m(utls)p 483 1239 37 5 v 55
w(pk)m(cs7)p 832 1239 V 53 w(get)p 1050 1239 V 55 w(crt)p
1258 1239 V 53 w(ra)m(w)3350 1449 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_pkcs7_get_crt_)q(raw)f Fg(\()p Ff(gn)m(utls)p
1941 1449 28 4 v 41 w(pk)m(cs7)p 2199 1449 V 40 w(t)31
b Fe(pkcs7)12 b Ff(,)32 b(in)m(t)f Fe(indx)12 b Ff(,)565
1559 y(v)m(oid)31 b(*)g Fe(certificate)12 b Ff(,)33 b(size)p
1627 1559 V 41 w(t)e(*)g Fe(certificate_size)12 b Fg(\()390
1669 y Ff(pk)m(cs7)7 b FB(:)42 b(should)29 b(con)m(tain)j(a)e(gn)m
(utls)p 1611 1669 V 41 w(pk)m(cs7)p 1869 1669 V 41 w(t)g(structure)390
1817 y Ff(indx)6 b FB(:)40 b(con)m(tains)32 b(the)e(index)g(of)h(the)f
(cert\014cate)j(to)e(extract)390 1965 y Ff(cert\014cate)5
b FB(:)43 b(the)30 b(con)m(ten)m(ts)j(of)d(the)h(cert\014cate)h(will)f
(b)s(e)f(copied)g(there)h(\(ma)m(y)g(b)s(e)f(n)m(ull))390
2114 y Ff(cert\014cate)p 783 2114 V 42 w(size)5 b FB(:)42
b(should)29 b(hold)h(the)h(size)g(of)g(the)f(cert\014cate)390
2262 y(This)g(function)g(will)g(return)g(a)g(cert\014cate)j(of)d(the)h
(PK)m(CS7)f(or)g(RF)m(C2630)j(cert\014cate)f(set.)390
2411 y(After)j(the)g(last)g(cert\014cate)i(has)d(b)s(een)g(read)g
Fs(GNUTLS_E_REQUESTED_DATA_N)o(OT_)o(AVAI)o(LABL)o(E)390
2520 y FB(will)d(b)s(e)e(returned.)390 2669 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 2778 y(If)38 b(the)g(pro)m(vided)g(bu\013er)f(is)h(not)g
(long)h(enough,)h(then)e Fs(certificate_size)c FB(is)k(up)s(dated)f

(and)390 2888 y Fs(GNUTLS_E_SHORT_MEMORY_BU)o(FFER)24
b FB(is)30 b(returned.)150 3101 y Fu(gn)m(utls)p 483
3101 37 5 v 55 w(pk)m(cs7)p 832 3101 V 53 w(imp)s(ort)3350
3312 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_pkcs7_import)e
Fg(\()p Ff(gn)m(utls)p 1679 3312 28 4 v 41 w(pk)m(cs7)p
1937 3312 V 41 w(t)31 b Fe(pkcs7)12 b Ff(,)31 b(const)565
3421 y(gn)m(utls)p 811 3421 V 41 w(datum)p 1110 3421
V 39 w(t)g(*)g Fe(data)12 b Ff(,)31 b(gn)m(utls)p 1807
3421 V 40 w(x509)p 2030 3421 V 42 w(crt)p 2183 3421 V
40 w(fm)m(t)p 2359 3421 V 40 w(t)g Fe(format)12 b Fg(\))390
3531 y Ff(pk)m(cs7)7 b FB(:)42 b(The)29 b(structure)h(to)h(store)g(the)
g(parsed)f(PK)m(CS7.)390 3679 y Ff(data)p FB(:)41 b(The)30
b(DER)h(or)f(PEM)h(enco)s(ded)f(PK)m(CS7.)390 3828 y
Ff(format)r FB(:)41 b(One)30 b(of)g(DER)h(or)f(PEM)390
3976 y(This)41 b(function)h(will)g(con)m(v)m(ert)h(the)f(giv)m(en)h
(DER)f(or)g(PEM)g(enco)s(ded)f(PK)m(CS7)h(to)h(the)f(nativ)m(e)390
4086 y Fs(gnutls_pkcs7_t)26 b FB(format.)42 b(The)29
b(output)h(will)h(b)s(e)f(stored)g(in)g('pk)m(cs7'.)390
4234 y(If)g(the)g(PK)m(CS7)g(is)h(PEM)f(enco)s(ded)g(it)h(should)f(ha)m
(v)m(e)h(a)g(header)f(of)h Fs("")p FB(PK)m(CS7)p Fs("")p
FB(.)390 4382 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 4596 y Fu(gn)m(utls)p
483 4596 37 5 v 55 w(pk)m(cs7)p 832 4596 V 53 w(init)3350
4806 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_pkcs7_init)e
Fg(\()p Ff(gn)m(utls)p 1575 4806 28 4 v 41 w(pk)m(cs7)p
1833 4806 V 40 w(t)31 b(*)g Fe(pkcs7)12 b Fg(\))390 4916
y Ff(pk)m(cs7)7 b FB(:)42 b(The)29 b(structure)h(to)h(b)s(e)f
(initialized)390 5064 y(This)37 b(function)g(will)g(initialize)j(a)e
(PK)m(CS7)f(structure.)61 b(PK)m(CS7)37 b(structures)g(usually)g(con)m
(tain)390 5174 y(lists)31 b(of)f(X.509)j(Certi\014cates)e(and)f(X.509)i
(Certi\014cate)g(rev)m(o)s(cation)g(lists.)390 5322 y
Fn>Returns:)k FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
%%Page: 189 195
TeXDict begin 189 194 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(189)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(pk)m(cs7)p 832 299
V 53 w(set)p 1037 299 V 55 w(crl)p 1231 299 V 53 w(ra)m(w)3350
492 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_pkcs7_set_crl_)q
(raw)f Fg(\()p Ff(gn)m(utls)p 1941 492 28 4 v 41 w(pk)m(cs7)p
2199 492 V 40 w(t)31 b Fe(pkcs7)12 b Ff(,)32 b(const)565
601 y(gn)m(utls)p 811 601 V 41 w(datum)p 1110 601 V 39
w(t)f(*)g Fe(crl)12 b Fg(\))390 711 y Ff(pk)m(cs7)7 b
FB(:)42 b(should)29 b(con)m(tain)j(a)e Fs(gnutls_pkcs7_t)d
FB(structure)390 843 y Ff(crl)t FB(:)40 b(the)31 b(DER)g(enco)s(ded)f
(crl)g(to)h(b)s(e)f(added)390 976 y(This)g(function)g(will)g(add)g(a)h

(crl)f(to)i(the)e(PK)m(CS7)g(or)g(RF)m(C2630)j(crl)e(set.)390
1108 y Fn>Returns:36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1303 y Fu(gn)m(utls)p 483 1303 37 5 v 55
w(pk)m(cs7)p 832 1303 V 53 w(set)p 1037 1303 V 55 w(crl)3350
1496 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_pkcs7_set_crl)f
Fg(\()p Ff(gn)m(utls)p 1732 1496 28 4 v 40 w(pk)m(cs7)p
1989 1496 V 41 w(t)31 b Fe(pkcs7)12 b Ff(,)31 b(gn)m(utls)p
2664 1496 V 41 w(x509)p 2888 1496 V 41 w(crl)p 3030 1496
V 40 w(t)565 1606 y Fe(crl)12 b Fg(\))390 1715 y Ff(pk)m(cs7)7
b FB(:)42 b(should)29 b(con)m(tain)j(a)e Fs(gnutls_pkcs7_t)d
FB(structure)390 1848 y Ff(crl)t FB(:)40 b(the)31 b(DER)g(enco)s(ded)f
(crl)g(to)h(b)s(e)f(added)390 1980 y(This)g(function)g(will)g(add)g(a)h
(parsed)f(CRL)f(to)i(the)g(PK)m(CS7)f(or)g(RF)m(C2630)j(crl)d(set.)390
2113 y Fn>Returns:36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2308 y Fu(gn)m(utls)p 483 2308 37 5 v 55
w(pk)m(cs7)p 832 2308 V 53 w(set)p 1037 2308 V 55 w(crt)p
1245 2308 V 53 w(ra)m(w)3350 2501 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_pkcs7_set_crt_)q(raw)f Fg(\()p Ff(gn)m(utls)p
1941 2501 28 4 v 41 w(pk)m(cs7)p 2199 2501 V 40 w(t)31
b Fe(pkcs7)12 b Ff(,)32 b(const)565 2610 y(gn)m(utls)p
811 2610 V 41 w(datum)p 1110 2610 V 39 w(t)f(*)g Fe(crt)12
b Fg(\))390 2720 y Ff(pk)m(cs7)7 b FB(:)42 b(should)29
b(con)m(tain)j(a)e Fs(gnutls_pkcs7_t)d FB(structure)390
2852 y Ff(crt)r FB(:)41 b(the)31 b(DER)f(enco)s(ded)g(cert)014cate)j
(to)e(b)s(e)e(added)390 2985 y(This)h(function)g(will)g(add)g(a)h
(cert)014cate)h(to)f(the)g(PK)m(CS7)f(or)g(RF)m(C2630)j(cert)014cate)
f(set.)390 3117 y Fn>Returns:k FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 3312 y Fu(gn)m(utls)p
483 3312 37 5 v 55 w(pk)m(cs7)p 832 3312 V 53 w(set)p
1037 3312 V 55 w(crt)3350 3505 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_pkcs7_set_crt_)f Fg(\()p Ff(gn)m(utls)p
1732 3505 28 4 v 40 w(pk)m(cs7)p 1989 3505 V 41 w(t)31
b Fe(pkcs7)12 b Ff(,)31 b(gn)m(utls)p 2664 3505 V 41
w(x509)p 2888 3505 V 41 w(crt)p 3040 3505 V 41 w(t)565
3615 y Fe(crt)12 b Fg(\))390 3724 y Ff(pk)m(cs7)7 b FB(:)42
b(should)29 b(con)m(tain)j(a)e Fs(gnutls_pkcs7_t)d FB(structure)390
3857 y Ff(crt)r FB(:)41 b(the)31 b(cert)014cate)h(to)f(b)s(e)f
(copied.)390 3989 y(This)g(function)g(will)i(add)e(a)h(parsed)f
(cert)014cate)j(to)e(the)g(PK)m(CS7)g(or)f(RF)m(C2630)j(cert)014cate)
g(set.)390 4099 y(This)d(is)g(a)h(wrapp)s(er)d(function)i(o)m(v)m(er)i
Fs(gnutls_pkcs7_set_crt_raw\()o\))24 b FB(.)390 4231
y Fn>Returns:36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 4426 y Fu(gn)m(utls)p 483 4426 37 5 v 55
w(x509)p 786 4426 V 54 w(crl)p 979 4426 V 54 w(c)m(hec)m(k)p

1326 4426 V 52 w(issuer)3350 4619 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_crl_check)q(_iss)q(uer)f Fg(\()p
Ff(gn)m(utls)p 2150 4619 28 4 v 41 w(x509)p 2374 4619
V 41 w(crl)p 2516 4619 V 41 w(t)30 b Fe(cert)12 b Ff(,)565
4729 y(gn)m(utls)p 811 4729 V 41 w(x509)p 1035 4729 V
41 w(crt)p 1187 4729 V 40 w(t)31 b Fe(issuer)12 b Fg(\()390
4838 y Ff(issuer)7 b FB(:)40 b(is)30 b(the)h(cert)014cate)h(of)f(a)f
(p)s(ossible)g(issuer)390 4971 y(This)j(function)h(will)g(c)m(hec)m(k)i
(if)e(the)g(giv)m(en)h(CRL)e(w)m(as)i(issued)e(b)m(y)h(the)g(giv)m(en)h
(issuer)f(cert)014cate.)390 5080 y(It)f(will)f(return)g(true)g(\(1))h
(if)g(the)f(giv)m(en)i(CRL)d(w)m(as)i(issued)f(b)m(y)g(the)h(giv)m(en)g
(issuer,)g(and)f(false)h(\(0))390 5190 y(if)d(not.)390
5322 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
%%Page: 190 196
TeXDict begin 190 195 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(190)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crl)p 979 299 V 54 w(deinit)3350 498 y FB([F]-8 b(unction))-3599
b Fh(void)54 b(gnutls_x509_crl_deinit)e Fg(\()p Ff(gn)m(utls)p
1889 498 28 4 v 40 w(x509)p 2112 498 V 42 w(crl)p 2255
498 V 40 w(t)31 b Fe(crl)12 b Fg(\()390 608 y Ff(crl)t
FB(:)40 b(The)30 b(structure)g(to)h(b)s(e)f(initialized)390
745 y(This)g(function)g(will)g(deinitialize)j(a)e(CRL)e(structure.)150
947 y Fu(gn)m(utls)p 483 947 37 5 v 55 w(x509)p 786 947
V 54 w(crl)p 979 947 V 54 w(exp)s(ort)3350 1147 y FB([F]-8
b(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_exp)q(t)e
Fg(\()p Ff(gn)m(utls)p 1836 1147 28 4 v 41 w(x509)p 2060
1147 V 41 w(crl)p 2202 1147 V 41 w(t)30 b Fe(crl)12 b
Ff(,)565 1256 y(gn)m(utls)p 811 1256 V 41 w(x509)p 1035
1256 V 41 w(crt)p 1187 1256 V 40 w(fm)m(t)p 1363 1256
V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(v)m(oid)f(*)g
Fe(output_data)12 b Ff(,)33 b(size)p 2906 1256 V 41 w(t)e(*)565
1366 y Fe(output_data_size)12 b Fg(\()390 1475 y Ff(crl)t
FB(:)40 b(Holds)31 b(the)g(rev)m(o)s(cation)h(list)390
1612 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 1750 y Ff(output)p
664 1750 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(a)e(priv)-5
b(ate)31 b(k)m(ey)g(PEM)g(or)f(DER)h(enco)s(ded)390 1887
y Ff(output)p 664 1887 V 40 w(data)p 880 1887 V 40 w(size)5
b FB(:)49 b(holds)34 b(the)g(size)h(of)f(output)p 2093
1887 V 39 w(data)h(\(and)f(will)g(b)s(e)f(replaced)i(b)m(y)e(the)i
(actual)390 1996 y(size)c(of)g(parameters))390 2134
y(This)f(function)g(will)g(exp)s(ort)g(the)h(rev)m(o)s(cation)h(list)f
(to)g(DER)g(or)f(PEM)h(format.)390 2271 y(If)91 b(the)g(bu\013er)f(pro)
m(vided)h(is)g(not)h(long)g(enough)f(to)h(hold)f(the)g(output,)106
b(then)390 2380 y(GNUTLS)p 777 2380 V 40 w(E)p 879 2380

V 40 w(SHOR)-8 b(T)p 1234 2380 V 39 w(MEMOR)g(Y)p 1699
2380 V 41 w(BUFFER)31 b(will)g(b)s(e)f(returned.)390
2518 y(If)g(the)g(structure)g(is)h(PEM)f(enco)s(ded,)g(it)h(will)g(ha)m
(v)m(e)h(a)e(header)h(of)f Fs("")p FB(BEGIN)h(X509)h(CRL)p
Fs("")p FB(.)390 2655 y Fn>Returns:)k FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)390 2764 y(and)30
b(a)h(negativ)m(e)h(v)-5 b(alue)31 b(on)f(failure.)150
2966 y Fu(gn)m(utls)p 483 2966 37 5 v 55 w(x509)p 786
2966 V 54 w(crl)p 979 2966 V 54 w(get)p 1198 2966 V 54
w(authorit)m(y)p 1751 2966 V 54 w(k)m(ey)p 1988 2966
V 53 w(id)3350 3166 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_x509_crl_get_a)q(utho)q(rit)q(y_k)q(ey_)q(id)f
Fg(\()p Ff(gn)m(utls)p 2569 3166 28 4 v 40 w(x509)p 2792
3166 V 42 w(crl)p 2935 3166 V 40 w(t)565 3275 y Fe(crl)12
b Ff(,)31 b(v)m(oid)g(*)g Fe(ret)12 b Ff(,)31 b(size)p
1433 3275 V 41 w(t)f(*)h Fe(ret_size)12 b Ff(,)33 b(unsigned)c(in)m(t)i
(*)g Fe(critical)12 b Fg(\()390 3385 y Ff(crl)t FB(:)40
b(should)30 b(con)m(tain)i(a)e Fs(gnutls_x509_crl_t)c
FB(structure)390 3522 y Ff(ret)r FB(:)41 b(The)30 b(place)h(where)f
(the)h(iden)m(ti\014er)f(will)h(b)s(e)f(copied)390 3659
y Ff(ret)p 507 3659 V 40 w(size)5 b FB(:)42 b(Holds)31
b(the)f(size)h(of)g(the)f(result)h(\014eld.)390 3797
y Ff(critical)t FB(:)42 b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h
(extension)g(is)f(mark)m(ed)g(as)h(critical)h(\(ma)m(y)g(b)s(e)d(n)m
(ull))390 3934 y(This)h(function)g(will)h(return)f(the)g(CRL)g
(authorit)m(y's)i(k)m(ey)f(iden)m(ti\014er.)42 b(This)30
b(is)g(obtained)h(b)m(y)g(the)390 4043 y(X.509)41 b(Authorit)m(y)e(Key)
g(iden)m(ti\014er)h(extension)f(\014eld)g(\(2.5.29.35\).)70
b(Note)41 b(that)e(this)g(function)390 4153 y(only)30
b(returns)g(the)g(k)m(ey)Iden)m(ti\014er)h(\014eld)f(of)h(the)f
(extension.)390 4290 y Fn>Returns:)50 b FB(On)34 b(success,)j
Fs(GNUTLS_E_SUCCESS)31 b FB(is)k(returned,)h(otherwise)g(a)f(negativ)m
(e)j(v)-5 b(alue)35 b(in)390 4400 y(case)c(of)g(an)f(error.)390
4537 y Fn(Since:)41 b FB(2.8.0)150 4739 y Fu(gn)m(utls)p
483 4739 37 5 v 55 w(x509)p 786 4739 V 54 w(crl)p 979
4739 V 54 w(get)p 1198 4739 V 54 w(crt)p 1405 4739 V
54 w(coun)m(t)3350 4938 y FB([F]-8 b(unction))-3599 b
Fh(int)53 b(gnutls_x509_crl_get_c)q(rt_c)q(oun)q(t)e
Fg(\()p Ff(gn)m(utls)p 2202 4938 28 4 v 41 w(x509)p 2426
4938 V 42 w(crl)p 2569 4938 V 40 w(t)30 b Fe(crl)12 b
Fg(\()390 5048 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
Fs(gnutls_x509_crl_t)c FB(structure)390 5185 y(This)k(function)g(will)g
(return)g(the)g(n)m(um)m(b)s(er)f(of)i(rev)m(ok)m(ed)g(cert\014cates)i
(in)d(the)g(giv)m(en)i(CRL.)390 5322 y Fn>Returns:)40
b FB(n)m(um)m(b)s(er)29 b(of)i(cert\014cates,)j(a)d(negativ)m(e)j(v)-5
b(alue)31 b(on)f(failure.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(191)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crl)p 979 299 V 54 w(get)p 1198 299 V 54 w(crt)p 1405
299 V 54 w(serial)3350 487 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crl_get_c)q(rt_s)q(eri)q(al)f
Fg(\()p Ff(gn)m(utls)p 2255 487 28 4 v 41 w(x509)p 2479
487 V 41 w(crl)p 2621 487 V 40 w(t)31 b Fe(crl)12 b Ff(,)31
b(in)m(t)565 597 y Fe(indx)12 b Ff(,)31 b(unsigned)f(c)m(har)g(*)h
Fe(serial)12 b Ff(,)32 b(size)p 2024 597 V 41 w(t)f(*)f
Fe(serial_size)12 b Ff(,)34 b(time)p 3025 597 V 41 w(t)c(*)h
Fe(t)12 b Fg(\)390 706 y Ff(crl)t FB(:)40 b(should)30
b(con)m(tain)i(a)e Fs(gnutls_x509_crl_t)c FB(structure)390
836 y Ff(indx)6 b FB(:)40 b(the)31 b(index)f(of)g(the)h(cert\014cate)h
(to)f(extract)h(\(starting)g(from)e(0))390 966 y Ff(serial)t
FB(:)41 b(when)30 b(the)h(serial)g(n)m(um)m(b)s(er)e(will)h(b)s(e)g
(copied)390 1097 y Ff(serial)p 603 1097 V 41 w(size)5
b FB(:)41 b(initially)32 b(holds)e(the)h(size)g(of)g(serial)390
1227 y Ff(t)r FB(:)41 b(if)30 b(non)g(n)m(ull),h(will)f(hold)g(the)h
(time)g(this)f(cert\014cate)j(w)m(as)d(rev)m(ok)m(ed)390
1357 y(This)k(function)h(will)g(retriev)m(e)h(the)g(serial)f(n)m(um)m
(b)s(er)f(of)h(the)g(sp)s(eci\014ed,)h(b)m(y)f(the)g(index,)h(rev)m(ok)
m(ed)390 1466 y(cert\014cate.)390 1597 y Fn>Returns:)g
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 1706 y(and)30 b(a)h(negativ)m(e)h(v)-5 b(alue)31
b(on)f(error.)150 1897 y Fu(gn)m(utls)p 483 1897 37 5
v 55 w(x509)p 786 1897 V 54 w(crl)p 979 1897 V 54 w(get)p
1198 1897 V 54 w(dn)p 1388 1897 V 55 w(oid)3350 2085
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_get_d)q(n_oi)
q(d)f Fg(\()p Ff(gn)m(utls)p 2046 2085 28 4 v 40 w(x509)p
2269 2085 V 42 w(crl)p 2412 2085 V 40 w(t)31 b Fe(crl)12
b Ff(,)31 b(in)m(t)f Fe(indx)12 b Ff(,)565 2194 y(v)m(oid)31
b(*)g Fe(oid)12 b Ff(,)31 b(size)p 1209 2194 V 41 w(t)f(*)h
Fe(sizeof_oid)12 b Fg(\)390 2304 y Ff(crl)t FB(:)40
b(should)30 b(con)m(tain)i(a)e(gn)m(utls)p 1491 2304
V 41 w(x509)p 1715 2304 V 41 w(crl)p 1857 2304 V 40 w(t)h(structure)390
2434 y Ff(indx)6 b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(DN)h(OID)f
(to)h(send.)40 b(Use)31 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390
2564 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
(to)h(hold)f(the)h(name)f(\(ma)m(y)i(b)s(e)n(m(ull))390
2694 y Ff(sizeof)p 610 2694 V 41 w(oid)t FB(:)41 b(initially)31
b(holds)f(the)h(size)g(of)g('oid')390 2824 y(This)26
b(function)g(will)h(extract)h(the)f(requested)g(OID)f(of)h(the)g(name)g
(of)g(the)g(CRL)f(issuer,)h(sp)s(eci\014ed)390 2934 y(b)m(y)j(the)h
(giv)m(en)g(index.)390 3064 y(If)f(oid)g(is)h(n)m(ull)f(then)g(only)h
(the)f(size)h(will)g(b)s(e)f(\014lled.)390 3194 y Fn>Returns:)39
b Fs(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o(R)21 b FB(if)27

b(the)h(pro)m(vided)e(bu\013er)h(is)g(not)g(long)h(enough,)390
3304 y(and)k(in)g(that)i(case)f(the)g(sizeof)p 1450 3304
V 41 w(oid)g(will)g(b)s(e)f(up)s(dated)f(with)i(the)g(required)e(size.)
49 b(On)32 b(success)h(0)390 3413 y(is)d(returned.)150
3604 y Fu(gn)m(utls)p 483 3604 37 5 v 55 w(x509)p 786
3604 V 54 w(crl)p 979 3604 V 54 w(get)p 1198 3604 V 54
w(extension)p 1756 3604 V 55 w(data)3350 3792 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_x509_crl_get_e)q(xten)q(sio)q
(n_d)q(ata)f Fg(\()p Ff(gn)m(utls)p 2464 3792 28 4 v
41 w(x509)p 2688 3792 V 41 w(crl)p 2830 3792 V 40 w(t)31
b Fe(crl)12 b Ff(,)565 3902 y(in)m(t)31 b Fe(indx)12
b Ff(,)31 b(v)m(oid)g(*)g Fe(data)12 b Ff(,)31 b(size)p
1676 3902 V 41 w(t)g(*)g Fe(sizeof_data)12 b Fg(\()390
4011 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
Fs(gnutls_x509_crl_t)c FB(structure)390 4141 y Ff(indx)6
b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(extension)h(OID)f(to)h
(send.)40 b(Use)31 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390
4271 y Ff(data)p FB(:)41 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
(to)h(hold)f(the)h(data)g(\(ma)m(y)g(b)s(e)f(n)m(ull)\))390
4402 y Ff(sizeof)p 610 4402 V 41 w(data)p FB(:)42 b(initially)31
b(holds)f(the)h(size)g(of)g Fs(oid)390 4532 y FB(This)39
b(function)g(will)g(return)f(the)i(requested)f(extension)h(data)g(in)f
(the)h(CRL.)e(The)h(extension)390 4641 y(data)31 b(will)g(b)s(e)f
(stored)g(as)h(a)f(string)h(in)f(the)g(pro)m(vided)g(bu\013er.)390
4771 y(Use)i Fs(gnutls_x509_crl_get_ext)o(ensi)o(on_i)o(nfo)o(\(\))25
b FB(to)32 b(extract)h(the)f(OID)f(and)g(critical)i(\015ag.)390
4881 y(Use)41 b Fs(gnutls_x509_crl_get_exten)o(sio)o(n_by)o(_oid)o
(\(\))34 b FB(instead,)44 b(if)d(y)m(ou)g(w)m(an)m(t)h(to)f(get)h(data)
390 4991 y(indexed)30 b(b)m(y)g(the)h(extension)g(OID)f(rather)g(than)g
(sequence.)390 5121 y Fn>Returns:)71 b FB(On)45 b(success,)50
b Fs(GNUTLS_E_SUCCESS)42 b FB(is)j(returned,)k(otherwise)d(a)g(negativ
m(e)i(v)-5 b(alue)390 5230 y(in)43 b(case)i(of)f(an)g(error.)80
b(If)43 b(y)m(our)h(ha)m(v)m(e)h(reac)m(hed)f(the)g(last)h(extension)f
(a)m(v)-5 b(ailable)46 b Fs(GNUTLS_E_)390 5340 y
(REQUESTED_DATA_NOT_AVAIL)o(ABLE)24 b FB(will)30 b(b)s(e)g(returned.)p
eop end

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b(F)-8 b(unction)31 b(Reference)2237 b(192)390 299 y
Fn(Since:)41 b FB(2.8.0)150 494 y Fu(gn)m(utls)p 483
494 37 5 v 55 w(x509)p 786 494 V 54 w(crl)p 979 494 V
54 w(get)p 1198 494 V 54 w(extension)p 1756 494 V 55
w(info)3350 687 y FB([F]-8 b(unction])-3599 b Fh(int)53
b(gnutls_x509_crl_get_e)q(xten)q(sio)q(n_i)q(nfo)f Fg(\()p
Ff(gn)m(utls)p 2464 687 28 4 v 41 w(x509)p 2688 687 V
41 w(crl)p 2830 687 V 40 w(t)31 b Fe(crl)12 b Ff(,)565
797 y(in)m(t)31 b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(oid)12 b Ff(,)31 b(size)p 1624 797 V 41 w(t)g(*)f

Fe(sizeof_oid)12 b Ff(,)33 b(in)m(t)e(*)g Fe(critical)12
 b Fg(\)390 907 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
 Fs(gnutls_x509_crl_t)c FB(structure)390 1039 y Ff(indx)6
 b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(extension)h(OID)f(to)h
 (send,)f(use)g(zero)h(to)h(get)f(the)g(\014rst)e(one.)390
 1172 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
 (to)h(hold)f(the)h(OID)390 1304 y Ff(sizeof)p 610 1304
 V 41 w(oid)t FB(:)38 b(initially)26 b(holds)e(the)h(maxim)m(um)g(size)h
 (of)f Fs(oid)p FB(,)g(on)g(return)e(holds)i(actual)h(size)g(of)f
 Fs(oid)p FB(.)390 1437 y Ff(critical)t FB(:)42 b(output)30
 b(v)-5 b(ariable)31 b(with)f(critical)j(\015ag,)e(ma)m(y)g(b)s(e)
 (NULL.)390 1570 y(This)34 b(function)h(will)h(return)e(the)i(requested)
 f(extension)h(OID)f(in)g(the)g(CRL,)g(and)g(the)g(critical)390
 1679 y(\015ag)e(for)f(it.)47 b(The)32 b(extension)h(OID)f(will)h(b)s(e)
 e(stored)i(as)f(a)h(string)f(in)g(the)h(pro)m(vided)f(bu\013er.)46
 b(Use)390 1789 y Fs(gnutls_x509_crl_get_exte)o(nsid)o(n_da)o(ta\()o(\)
 24 b FB(to)32 b(extract)f(the)g(data.)390 1922 y(If)37
 b(the)h(bu\013er)e(pro)m(vided)h(is)h(not)f(long)h(enough)g(to)g(hold)f
 (the)h(output,)h(then)e(*)p Fs(sizeof_oid)e FB(is)390
 2031 y(up)s(dated)29 b(and)h Fs(GNUTLS_E_SHORT_MEMORY_BU)o(FFE)o(R)24
 b FB(will)31 b(b)s(e)f(returned.)390 2164 y Fn>Returns:)71
 b FB(On)45 b(success,)50 b Fs(GNUTLS_E_SUCCESS)42 b FB(is)j(returned,)k
 (otherwise)d(a)g(negativ)m(e)i(v)-5 b(alue)390 2273 y(in)43
 b(case)i(of)f(an)g(error.)80 b(If)43 b(y)m(our)h(ha)m(v)m(e)h(reac)m
 (hed)f(the)g(last)h(extension)f(a)m(v)-5 b(ailable)46
 b Fs(GNUTLS_E_)390 2383 y(REQUESTED_DATA_NOT_AVAIL)o(ABLE)24
 b FB(will)30 b(b)s(e)g(returned.)390 2516 y Fn(Since:)41
 b FB(2.8.0)150 2711 y Fu(gn)m(utls)p 483 2711 37 5 v
 55 w(x509)p 786 2711 V 54 w(crl)p 979 2711 V 54 w(get)p
 1198 2711 V 54 w(extension)p 1756 2711 V 55 w(oid)3350
 2904 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crl_get_e)q
 (xten)q(sio)q(n_o)q(id)f Fg(\()p Ff(gn)m(utls)p 2412
 2904 28 4 v 40 w(x509)p 2635 2904 V 42 w(crl)p 2778 2904
 V 40 w(t)31 b Fe(crl)12 b Ff(,)565 3014 y(in)m(t)31 b
 Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g Fe(oid)12 b Ff(,)31
 b(size)p 1624 3014 V 41 w(t)g(*)f Fe(sizeof_oid)12 b
 Fg(\)390 3123 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
 Fs(gnutls_x509_crl_t)c FB(structure)390 3256 y Ff(indx)6
 b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(extension)h(OID)f(to)h
 (send,)f(use)g(zero)h(to)h(get)f(the)g(\014rst)e(one.)390
 3389 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
 (to)h(hold)f(the)h(OID)f(\(ma)m(y)i(b)s(e)d(n)ull\))390
 3521 y Ff(sizeof)p 610 3521 V 41 w(oid)t FB(:)41 b(initially)31
 b(holds)f(the)h(size)g(of)g Fs(oid)390 3654 y FB(This)39
 b(function)g(will)h(return)f(the)g(requested)h(extension)g(OID)g(in)f
 (the)h(CRL.)f(The)g(extension)390 3763 y(OID)30 b(will)h(b)s(e)f
 (stored)g(as)h(a)g(string)f(in)g(the)h(pro)m(vided)f(bu\013er.)390
 3896 y Fn>Returns:)71 b FB(On)45 b(success,)50 b Fs(GNUTLS_E_SUCCESS)42

b FB(is)j(returned,)k(otherwise)d(a)g(negativ)m(e)i(v)-5
b(alue)390 4006 y(in)43 b(case)i(of)f(an)g(error.)80
b(If)43 b(y)m(our)h(ha)m(v)m(e)h(reac)m(hed)f(the)g(last)h(extension)f
(a)m(v)-5 b(ailable)46 b Fs(GNUTLS_E_)390 4115 y
(REQUESTED_DATA_NOT_AVAILABLE)o(ABLE)24 b FB(will)30 b(b)s(e)g(returned.)
390 4248 y Fn(Since:)41 b FB(2.8.0)150 4443 y Fu(gn)m(utls)p
483 4443 37 5 v 55 w(x509)p 786 4443 V 54 w(crl)p 979
4443 V 54 w(get)p 1198 4443 V 54 w(issuer)p 1556 4443
V 55 w(dn)p 1747 4443 V 55 w(b)m(y)p 1932 4443 V 53 w(oid)3350
4636 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_get_i)q
(ssue)q(r_d)q(n_b)q(y_o)q(id)f Fg(\()p Ff(gn)m(utls)p
2569 4636 28 4 v 40 w(x509)p 2792 4636 V 42 w(crl)p 2935
4636 V 40 w(t)565 4746 y Fe(crl)12 b Ff(,)31 b(const)g(c)m(har)g(*)f
Fe(oid)12 b Ff(,)31 b(in)m(t)g Fe(indx)12 b Ff(,)32 b(unsigned)d(in)m
(t)i Fe(raw_flag)12 b Ff(,)32 b(v)m(oid)f(*)g Fe(buf)12
b Ff(,)31 b(size)p 3589 4746 V 41 w(t)g(*)565 4856 y
Fe(sizeof_buf)12 b Fg(\()390 4965 y Ff(crl)t FB(:)40
b(should)30 b(con)m(tain)i(a)e(gn)m(utls)p 1491 4965
V 41 w(x509)p 1715 4965 V 41 w(crl)p 1857 4965 V 40 w(t)h(structure)390
5098 y Ff(oid)t FB(:)40 b(holds)30 b(an)h(Ob)5 b(ject)30
b(Ident)m(ti\014ed)g(in)g(n)m(ull)g(terminated)h(string)390
5230 y Ff(indx)6 b FB(:)39 b(In)26 b(case)j(m)m(ultiple)f(same)g(OIDs)f
(exist)h(in)f(the)h(RDN,)g(this)f(sp)s(eci\014es)g(whic)m(h)g(to)i
(send.)39 b(Use)390 5340 y(zero)31 b(to)g(get)h(the)e(\014rst)g(one.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(193)390 299 y
Ff(ra)m(w)p 540 299 28 4 v 40 w(\015ag)8 b FB(:)41 b(If)30
b(non)g(zero)h(returns)e(the)i(ra)m(w)f(DER)h(data)g(of)f(the)h(DN)g
(part.)390 436 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g
(structure)f(to)h(hold)f(the)h(p)s(eer's)e(name)i(\(ma)m(y)g(b)s(e)f(n
m(ull))390 573 y Ff(sizeof)p 610 573 V 41 w(buf)17 b
FB(:)40 b(initially)32 b(holds)e(the)g(size)i(of)e Fs(buf)390
710 y FB(This)37 b(function)g(will)g(extract)i(the)f(part)f(of)g(the)h
(name)f(of)h(the)f(CRL)g(issuer)g(sp)s(eci\014ed)f(b)m(y)i(the)390
820 y(giv)m(en)31 b(OID.)f(The)f(output)h(will)g(b)s(e)f(enco)s(ded)g
(as)h(describ)s(ed)f(in)h(RF)m(C2253.)42 b(The)30 b(output)f(string)390
929 y(will)i(b)s(e)e(ASCII)s(I)g(or)i(UTF-8)g(enco)s(ded,)f(dep)s
(ending)f(on)h(the)h(certi\014cate)h(data.)390 1066 y(Some)g(help)s(er)
f(macros)i(with)f(p)s(opular)f(OIDs)h(can)g(b)s(e)g(found)f(in)g(gn)m
(utls/x509.h)j(If)e(ra)m(w)g(\015ag)h(is)390 1176 y(zero,)39
b(this)e(function)f(will)h(only)f(return)g(kno)m(wn)g(OIDs)g(as)h
(text.)61 b(Other)36 b(OIDs)g(will)h(b)s(e)f(DER)390
1286 y(enco)s(ded,)29 b(as)f(describ)s(ed)f(in)h(RF)m(C2253)i({)f(in)f
(hex)g(format)h(with)e(a)i(')p Fs(\()p FB(#)f(pre\014x.)39
b(Y)-8 b(ou)29 b(can)f(c)m(hec)m(k)390 1395 y(ab)s(out)i(kno)m(wn)g
(OIDs)g(using)g Fs(gnutls_x509_dn_oid_known)o(\()p

FB(.)390 1532 y(If)g(buf)f(is)h(n)m(ull)h(then)f(only)g(the)h(size)g
(will)g(b)s(e)f(\014lled.)390 1669 y Fn>Returns:)39 b
Fs(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o(R)21 b FB(if)27 b(the)h(pro)m
(vided)e(bu\013er)h(is)g(not)g(long)h(enough,)390 1779
y(and)21 b(in)h(that)g(case)h(the)f(sizeof)p 1396 1779
V 41 w(buf)f(will)h(b)s(e)f(up)s(dated)f(with)i(the)g(required)f(size,)
j(and)e(0)g(on)f(success.)150 1981 y Fu(gn)m(utls)p 483
1981 37 5 v 55 w(x509)p 786 1981 V 54 w(crl)p 979 1981
V 54 w(get)p 1198 1981 V 54 w(issuer)p 1556 1981 V 55
w(dn)3350 2180 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_x509_crl_get_i)q(ssue)q(r_d)q(n)e Fg(\()p Ff(const)32
b(gn)m(utls)p 2441 2180 28 4 v 40 w(x509)p 2664 2180
V 41 w(crl)p 2806 2180 V 41 w(t)e Fe(crl)12 b Ff(,)565
2290 y(c)m(har)31 b(*)g Fe(buf)12 b Ff(,)31 b(size)p
1212 2290 V 41 w(t)f(*)h Fe(sizeof_buf)12 b Fg(\()390
2399 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m(utls)p
1491 2399 V 41 w(x509)p 1715 2399 V 41 w(crl)p 1857 2399
V 40 w(t)h(structure)390 2537 y Ff(buf)16 b FB(:)41 b(a)31
b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h(hold)f(the)h(p)s(eer's)e
(name)i(\(ma)m(y)g(b)s(e)f(n)m(ull))390 2674 y Ff(sizeof)p
610 2674 V 41 w(buf)17 b FB(:)40 b(initially)32 b(holds)e(the)g(size)i
(of)e Fs(buf)390 2811 y FB(This)c(function)g(will)i(cop)m(y)f(the)g
(name)g(of)g(the)g(CRL)f(issuer)g(in)h(the)g(pro)m(vided)f(bu\013er.)39
b(The)26 b(name)390 2920 y(will)45 b(b)s(e)g(in)g(the)g(form)g
Fs("")p FB(C=xxxx,O=yyyy)-8 b(CN=zzzz)p Fs("")45 b FB(as)g(describ)s(ed)
f(in)h(RF)m(C2253.)87 b(The)390 3030 y(output)30 b(string)g(will)h(b)s
(e)f(ASCII)s(I)f(or)h(UTF-8)h(enco)s(ded,)f(dep)s(ending)f(on)i(the)f
(certi\014cate)j(data.)390 3167 y(If)d(buf)f(is)h Fs(NULL)g
FB(then)g(only)g(the)h(size)g(will)g(b)s(e)e(\014lled.)390
3304 y Fn>Returns:)39 b Fs(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o(R)21
b FB(if)27 b(the)h(pro)m(vided)e(bu\013er)h(is)g(not)g(long)h(enough,)
390 3414 y(and)21 b(in)h(that)g(case)h(the)f(sizeof)p
1396 3414 V 41 w(buf)f(will)h(b)s(e)f(up)s(dated)f(with)i(the)g
(required)f(size,)j(and)e(0)g(on)f(success.)150 3616
y Fu(gn)m(utls)p 483 3616 37 5 v 55 w(x509)p 786 3616
V 54 w(crl)p 979 3616 V 54 w(get)p 1198 3616 V 54 w(next)p
1489 3616 V 54 w(up)s(date)3350 3815 y FB([F]-8 b(unction))-3599
b Fh(time_t)54 b(gnutls_x509_crl_get_ne)q(xt_)q(upd)q(ate)e
Fg(\()p Ff(gn)m(utls)p 2464 3815 28 4 v 41 w(x509)p 2688
3815 V 41 w(crl)p 2830 3815 V 40 w(t)31 b Fe(crl)12 b
Fg(\()390 3924 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
Fs(gnutls_x509_crl_t)c FB(structure)390 4062 y(This)i(function)h(will)h
(return)e(the)h(time)h(the)g(next)f(CRL)g(will)g(b)s(e)g(issued.)39
b(This)29 b(\014eld)g(is)g(optional)390 4171 y(in)h(a)h(CRL)f(so)g(it)h
(migh)m(t)g(b)s(e)f(normal)g(to)h(get)h(an)e(error)g(instead.)390
4308 y Fn>Returns:)40 b FB(when)30 b(the)g(next)h(CRL)f(will)g(b)s(e)g
(issued,)g(or)g(\(time)p 2514 4308 V 41 w(t)-1)i(on)e(error.)150
4510 y Fu(gn)m(utls)p 483 4510 37 5 v 55 w(x509)p 786

4510 V 54 w(crl)p 979 4510 V 54 w(get)p 1198 4510 V 54
w(n)m(um)m(b)s(er)3350 4709 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crl_get_n)q(umbe)q(r)f Fg(\()p
Ff(gn)m(utls)p 2046 4709 28 4 v 40 w(x509)p 2269 4709
V 42 w(crl)p 2412 4709 V 40 w(t)30 b Fe(crl)12 b Ff(,)31
b(v)m(oid)f(*)h Fe(ret)12 b Ff(,)565 4819 y(size)p 712
4819 V 41 w(t)31 b(*)f Fe(ret_size)12 b Ff(,)33 b(unsigned)c(in)m(t)i
(*g Fe(critical)12 b Fg(\)390 4929 y Ff(crl)t FB(:)40
b(should)30 b(con)m(tain)i(a)e Fs(gnutls_x509_crl_t)c
FB(structure)390 5066 y Ff(ret)r FB(:)41 b(The)30 b(place)h(where)f
(the)h(n)m(um)m(b)s(er)e(will)h(b)s(e)g(copied)390 5203
y Ff(ret)p 507 5203 V 40 w(size)5 b FB(:)42 b(Holds)31
b(the)f(size)h(of)g(the)f(result)h(\014eld.)390 5340
y Ff(critical)t FB(:)42 b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h
(extension)g(is)f(mark)m(ed)g(as)h(critical)h(\(ma)m(y)g(b)s(e)d(n)m
(ull))p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(194)390 299 y(This)33
b(function)h(will)h(return)e(the)h(CRL)g(n)m(um)m(b)s(er)e(extension.)
53 b(This)33 b(is)i(obtained)f(b)m(y)g(the)h(CRL)390
408 y(Num)m(b)s(er)29 b(extension)i(\014eld)f(\(2.5.29.20\).)390
543 y Fn>Returns:)50 b FB(On)34 b(success,)j Fs(GNUTLS_E_SUCCESS)31
b FB(is)k(returned,)h(otherwise)g(a)f(negativ)m(e)j(v)-5
b(alue)35 b(in)390 652 y(case)c(of)g(an)f(error.)390
787 y Fn(Since:)41 b FB(2.8.0)150 986 y Fu(gn)m(utls)p
483 986 37 5 v 55 w(x509)p 786 986 V 54 w(crl)p 979 986
V 54 w(get)p 1198 986 V 54 w(signature)p 1745 986 V 55
w(algorithm)3350 1183 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_x509_crl_get_s)q(igna)q(tur)q(e_a)q(lgo)q(ri)q(m)e
Fg(\()p Ff(gn)m(utls)p 2725 1183 28 4 v 41 w(x509)p 2949
1183 V 42 w(crl)p 3092 1183 V 40 w(t)565 1292 y Fe(crl)12
b Fg(\)390 1402 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
Fs(gnutls_x509_crl_t)c FB(structure)390 1536 y(This)f(function)h(will)h
(return)e(a)h(v)-5 b(alue)27 b(of)f(the)h Fs(gnutls_sign_algorithm_t)20
b FB(en)m(umeration)26 b(that)390 1646 y(is)k(the)h(signature)g
(algorithm.)390 1780 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 1979 y Fu(gn)m(utls)p
483 1979 37 5 v 55 w(x509)p 786 1979 V 54 w(crl)p 979
1979 V 54 w(get)p 1198 1979 V 54 w(signature)3350 2176
y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_get_s)q(igna)q
(tur)q(e) Fg(\()p Ff(gn)m(utls)p 2202 2176 28 4 v 41
w(x509)p 2426 2176 V 42 w(crl)p 2569 2176 V 40 w(t)30
b Fe(crl)12 b Ff(,)31 b(c)m(har)g(*)565 2286 y Fe(sig)12
b Ff(,)31 b(size)p 936 2286 V 41 w(t)g(*)f Fe(sizeof_sig)12
b Fg(\)390 2395 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m
(utls)p 1491 2395 V 41 w(x509)p 1715 2395 V 41 w(crl)p

1857 2395 V 40 w(t)h(structure)390 2530 y Ff(sig)8 b
FB(:)41 b(a)31 b(p)s(oin)m(ter)f(where)g(the)h(signature)f(part)h(will)
f(b)s(e)g(copied)h(\(ma)m(y)g(b)s(e)f(n)m(ull\).)390
2664 y Ff(sizeof)p 610 2664 V 41 w(sig)8 b FB(:)41 b(initially)32
b(holds)e(the)g(size)i(of)e Fs(sig)390 2798 y FB(This)g(function)g
(will)g(extract)i(the)f(signature)f(\014eld)g(of)h(a)g(CRL.)390
2933 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 3042 y(and)30 b(a)h(negativ)m(e)h(v)-5 b(alue)31
b(on)f(error.)150 3241 y Fu(gn)m(utls)p 483 3241 37 5
v 55 w(x509)p 786 3241 V 54 w(crl)p 979 3241 V 54 w(get)p
1198 3241 V 54 w(this)p 1450 3241 V 55 w(up)s(date)3350
3438 y FB([F]-8 b(unction))-3599 b Fh(time_t)54 b
(gnutls_x509_crl_get_th)q(is_)q(upd)q(ate)e Fg(\()p Ff(gn)m(utls)p
2464 3438 28 4 v 41 w(x509)p 2688 3438 V 41 w(crl)p 2830
3438 V 40 w(t)31 b Fe(crl)12 b Fg(\))390 3548 y Ff(crl)t
FB(:)40 b(should)30 b(con)m(tain)i(a)e Fs(gnutls_x509_crl_t)c
FB(structure)390 3682 y(This)k(function)g(will)g(return)g(the)g(time)h
(this)g(CRL)e(w)m(as)i(issued.)390 3817 y Fn>Returns:)40
b FB(when)30 b(the)g(CRL)g(w)m(as)h(issued,)f(or)g(\(time)p
2189 3817 V 41 w(t)-1)i(on)e(error.)150 4016 y Fu(gn)m(utls)p
483 4016 37 5 v 55 w(x509)p 786 4016 V 54 w(crl)p 979
4016 V 54 w(get)p 1198 4016 V 54 w(v)m(ersion)3350 4212
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_get_v)q(ersi)
q(on)f Fg(\()p Ff(gn)m(utls)p 2098 4212 28 4 v 41 w(x509)p
2322 4212 V 41 w(crl)p 2464 4212 V 40 w(t)31 b Fe(crl)12
b Fg(\))390 4322 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e
Fs(gnutls_x509_crl_t)c FB(structure)390 4456 y(This)k(function)g(will)g
(return)g(the)g(v)m(ersion)h(of)g(the)f(sp)s(eci\014ed)g(CRL.)390
4591 y Fn>Returns:)40 b FB(The)30 b(v)m(ersion)h(n)m(um)m(b)s(er,)e(or)
i(a)g(negativ)m(e)h(v)-5 b(alue)31 b(on)f(error.)150
4790 y Fu(gn)m(utls)p 483 4790 37 5 v 55 w(x509)p 786
4790 V 54 w(crl)p 979 4790 V 54 w(imp)s(ort)3350 4986
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_impор)q(t)e
Fg(\()p Ff(gn)m(utls)p 1836 4986 28 4 v 41 w(x509)p 2060
4986 V 41 w(crl)p 2202 4986 V 41 w(t)30 b Fe(crl)12 b
Ff(,)31 b(const)565 5096 y(gn)m(utls)p 811 5096 V 41
w(datum)p 1110 5096 V 39 w(t)g(*)g Fe(data)12 b Ff(,)31
b(gn)m(utls)p 1807 5096 V 40 w(x509)p 2030 5096 V 42
w(crt)p 2183 5096 V 40 w(fm)m(t)p 2359 5096 V 40 w(t)g
Fe(format)12 b Fg(\))390 5206 y Ff(crl)t FB(:)40 b(The)30
b(structure)g(to)h(store)g(the)g(parsed)f(CRL.)390 5340
y Ff(data)p FB(:)41 b(The)30 b(DER)h(or)f(PEM)h(enco)s(ded)f(CRL.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(195)390 299 y
Ff(format)r FB(:)41 b(One)30 b(of)g(DER)h(or)f(PEM)390

434 y(This)22 b(function)g(will)g(con)m(v)m(ert)i(the)f(giv)m(en)g(DER)
f(or)h(PEM)f(enco)s(ded)g(CRL)g(to)h(the)f(nativ)m(e)i
Fs(gnutls_)390 544 y(x509_crl_t)k FB(format.)41 b(The)29
b(output)h(will)h(b)s(e)f(stored)g(in)g('crl'.)390 679
y(If)g(the)g(CRL)g(is)h(PEM)f(enco)s(ded)g(it)h(should)e(ha)m(v)m(e)j
(a)f(header)f(of)g Fs("")p FB(X509)i(CRL)p Fs("")p FB(.)390
814 y Fn>Returns:)k FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1014 y Fu(gn)m(utls)p 483 1014 37 5 v 55
w(x509)p 786 1014 V 54 w(crl)p 979 1014 V 54 w(init)3350
1211 y FB([F)d(unction)]-3599 b Fh(int)53 b(gnutls_x509_crl_init)f
Fg(\()p Ff(gn)m(utls)p 1732 1211 28 4 v 40 w(x509)p 1955
1211 V 42 w(crl)p 2098 1211 V 40 w(t)31 b(*)g Fe(crl)12
b Fg(\))390 1321 y Ff(crl)t FB(:)40 b(The)30 b(structure)g(to)h(b)s(e)f
(initialized)390 1456 y(This)40 b(function)g(will)h(initialize)h(a)f
(CRL)f(structure.)70 b(CRL)40 b(stands)g(for)g(Certi\014cate)i(Rev)m(o)
s(ca-)390 1566 y(tion)d(List.)65 b(A)38 b(rev)m(o)s(cation)i(list)f
(usually)f(con)m(tains)i(lists)f(of)f(cert\014cate)i(serial)f(n)m(um)m
(b)s(ers)e(that)390 1675 y(ha)m(v)m(e)d(b)s(een)d(rev)m(ok)m(ed)j(b)m
(y)e(an)g(Authorit)m(y)-8 b(.)47 b(The)32 b(rev)m(o)s(cation)i(lists)f
(are)g(alw)m(a)m(ys)h(signed)e(with)g(the)390 1785 y(authorit)m(y's)f
(priv)-5 b(ate)31 b(k)m(ey)-8 b(.)390 1920 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2120 y Fu(gn)m(utls)p 483 2120 37 5 v 55
w(x509)p 786 2120 V 54 w(crl)p 979 2120 V 54 w(prin)m(t)3350
2317 y FB([F)d(unction)]-3599 b Fh(int)53 b(gnutls_x509_crl_print)f
Fg(\()p Ff(gn)m(utls)p 1784 2317 28 4 v 41 w(x509)p 2008
2317 V 41 w(crl)p 2150 2317 V 40 w(t)31 b Fe(crl)12 b
Ff(,)565 2427 y(gn)m(utls)p 811 2427 V 41 w(cert\014cate)p
1239 2427 V 42 w(prin)m(t)p 1476 2427 V 39 w(formats)p
1816 2427 V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(gn)m(utls)p
2543 2427 V 41 w(datum)p 2842 2427 V 39 w(t)f(*)g Fe(out)12
b Fg(\))390 2536 y Ff(crl)t FB(:)40 b(The)30 b(structure)g(to)h(b)s(e)f
(prin)m(ted)390 2672 y Ff(format)r FB(:)41 b(Indicate)31
b(the)g(format)f(to)h(use)390 2807 y Ff(out)r FB(:)41
b(Newly)31 b(allo)s(cated)h(datum)e(with)g(zero)h(terminated)g(string.)
390 2942 y(This)e(function)h(will)g(prett)m(y)h(prin)m(t)e(a)i(X.509)h
(cert\014cate)g(rev)m(o)s(cation)f(list,)g(suitable)g(for)f(displa)m
(y)390 3051 y(to)h(a)g(h)m(uman.)390 3187 y(The)f(output)g
Fs(out)f FB(needs)h(to)h(b)s(e)f(deallo)s(cate)j(using)d
Fs(gnutls_free\(\))p FB(.)390 3322 y Fn>Returns:)36 b
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3522 y Fu(gn)m(utls)p 483 3522 37 5 v 55
w(x509)p 786 3522 V 54 w(crl)p 979 3522 V 54 w(set)p
1185 3522 V 54 w(authorit)m(y)p 1738 3522 V 54 w(k)m(ey)p
1975 3522 V 53 w(id)3350 3719 y FB([F)d(unction)]-3599

b Fh(int)53 b(gnutls_x509_crl_set_a)q(utho)q(rit)q(y_k)q(ey_)q(id)f
Fg(\()p Ff(gn)m(utls)p 2569 3719 28 4 v 40 w(x509)p 2792
3719 V 42 w(crl)p 2935 3719 V 40 w(t)565 3829 y Fe(crl)12
b Ff(,)31 b(const)g(v)m(oid)g(*)g Fe(id)12 b Ff(,)30
b(size)p 1618 3829 V 41 w(t)h Fe(id_size)12 b Fg(\()390
3938 y Ff(crl)t FB(:)40 b(a)31 b(CRL)f(of)g(t)m(y)p)s(e)h
Fs(gnutls_x509_crl_t)390 4073 y Ff(id)t FB(:)40 b(The)30
b(k)m(ey)h(ID)390 4208 y Ff(id)p 472 4208 V 40 w(size)5
b FB(:)41 b(Holds)31 b(the)g(size)g(of)f(the)h(serial)g(\014eld.)390
4344 y(This)h(function)h(will)h(set)f(the)g(CRL's)g(authorit)m(y)h(k)m
(ey)g(ID)f(extension.)50 b(Only)32 b(the)h(k)m(ey)h(Ident)m(ti\014er)390
4453 y(\014eld)d(can)h(b)s(e)e(set)i(with)f(this)h(function.)390
4588 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 4723 y Fn(Since:)41 b FB(2.8.0)150 4923 y
Fu(gn)m(utls)p 483 4923 37 5 v 55 w(x509)p 786 4923 V
54 w(crl)p 979 4923 V 54 w(set)p 1185 4923 V 54 w(crt)p
1392 4923 V 54 w(serial)3350 5121 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crl_set_c)q(rt_s)q(eri)q(al)f
Fg(\()p Ff(gn)m(utls)p 2255 5121 28 4 v 41 w(x509)p 2479
5121 V 41 w(crl)p 2621 5121 V 40 w(t)31 b Fe(crl)12 b
Ff(,)31 b(const)565 5230 y(v)m(oid)g(*)g Fe(serial)12
b Ff(,)32 b(size)p 1366 5230 V 41 w(t)e Fe(serial_size)12
b Ff(,)34 b(time)p 2291 5230 V 41 w(t)c Fe(revocation_time)12
b Fg(\()390 5340 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m
(utls)p 1491 5340 V 41 w(x509)p 1715 5340 V 41 w(crl)p
1857 5340 V 40 w(t)h(structure)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(196)390 299 y
Ff(serial)t FB(:)41 b(The)30 b(rev)m(ok)m(ed)i(cert)\014cate's)g
(serial)f(n)m(um)m(b)s(er)390 434 y Ff(serial)p 603 434
28 4 v 41 w(size)5 b FB(:)41 b(Holds)31 b(the)g(size)g(of)f(the)h
(serial)g(\014eld.)390 568 y Ff(rev)m(o)s(cation)p 806
568 V 42 w(time)5 b FB(:)41 b(The)30 b(time)h(this)g(cert)\014cate)h(w)
m(as)f(rev)m(ok)m(ed)390 703 y(This)f(function)g(will)g(set)h(a)g(rev)m
(ok)m(ed)h(cert)\014cate's)g(serial)f(n)m(um)m(b)s(er)e(to)i(the)g
(CRL.)390 838 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 1037 y Fu(gn)m(utls)p
483 1037 37 5 v 55 w(x509)p 786 1037 V 54 w(crl)p 979
1037 V 54 w(set)p 1185 1037 V 54 w(crt)3350 1234 y FB([F)d(unction)]
-3599 b Fh(int)53 b(gnutls_x509_crl_set_c)q(rt)f Fg(\()p
Ff(gn)m(utls)p 1889 1234 28 4 v 40 w(x509)p 2112 1234
V 42 w(crl)p 2255 1234 V 40 w(t)31 b Fe(crl)12 b Ff(,)565
1344 y(gn)m(utls)p 811 1344 V 41 w(x509)p 1035 1344 V
41 w(crt)p 1187 1344 V 40 w(t)31 b Fe(crt)12 b Ff(,)31
b(time)p 1693 1344 V 41 w(t)f Fe(revocation_time)12 b

Fg(\))390 1454 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m
(utls)p 1491 1454 V 41 w(x509)p 1715 1454 V 41 w(crl)p
1857 1454 V 40 w(t)h(structure)390 1588 y Ff(crt)r FB(:)41
b(a)31 b(cert)\014cate)h(of)f(t)m(y)p)s(e)f Fs(gnutls_x509_crt_t)c
FB(with)k(the)h(rev)m(ok)m(ed)g(cert)\014cate)390 1723
y Ff(rev)m(o)s(cation)p 806 1723 V 42 w(time)5 b FB(:)41
b(The)30 b(time)h(this)g(cert)\014cate)h(w)m(as)f(rev)m(ok)m(ed)390
1858 y(This)f(function)g(will)g(set)h(a)g(rev)m(ok)m(ed)h
(cert)\014cate's)g(serial)f(n)m(um)m(b)s(er)e(to)i(the)g(CRL.)390
1993 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2192 y Fu(gn)m(utls)p 483 2192 37 5 v 55
w(x509)p 786 2192 V 54 w(crl)p 979 2192 V 54 w(set)p
1185 2192 V 54 w(next)p 1476 2192 V 54 w(up)s(date)3350
2389 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_set_n)q
(ext_)q(upd)q(ate)f Fg(\))p Ff(gn)m(utls)p 2307 2389
28 4 v 41 w(x509)p 2531 2389 V 41 w(crl)p 2673 2389 V
40 w(t)31 b Fe(crl)12 b Ff(,)565 2499 y(time)p 747 2499
V 41 w(t)31 b Fe(exp_time)12 b Fg(\))390 2608 y Ff(crl)t
FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m(utls)p 1491
2608 V 41 w(x509)p 1715 2608 V 41 w(crl)p 1857 2608 V
40 w(t)h(structure)390 2743 y Ff(exp)p 535 2743 V 40
w(time)5 b FB(:)41 b(The)30 b(actual)i(time)390 2878
y(This)e(function)g(will)g(set)h(the)g(time)g(this)f(CRL)g(will)h(b)s
(e)e(up)s(dated.)390 3013 y Fn>Returns:)36 b FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 3212 y Fu(gn)m(utls)p
483 3212 37 5 v 55 w(x509)p 786 3212 V 54 w(crl)p 979
3212 V 54 w(set)p 1185 3212 V 54 w(n)m(um)m(b)s(er)3350
3409 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_set_n)q
(umbe)q(r)f Fg(\))p Ff(gn)m(utls)p 2046 3409 28 4 v 40
w(x509)p 2269 3409 V 42 w(crl)p 2412 3409 V 40 w(t)31
b Fe(crl)12 b Ff(,)31 b(const)f(v)m(oid)565 3519 y(*)h
Fe(nr)12 b Ff(,)31 b(size)p 960 3519 V 40 w(t)g Fe(nr_size)12
b Fg(\))390 3628 y Ff(crl)t FB(:)40 b(a)31 b(CRL)f(of)g(t)m(y)p)s(e)h
Fs(gnutls_x509_crl_t)390 3763 y Ff(nr)7 b FB(:)39 b(The)30
b(CRL)g(n)m(um)m(b)s(er)390 3898 y Ff(nr)p 483 3898 V
39 w(size)5 b FB(:)42 b(Holds)30 b(the)h(size)g(of)g(the)f(nr)g
(\014eld.)390 4033 y(This)g(function)g(will)g(set)h(the)g(CRL's)f(n)m
(um)m(b)s(er)f(extension.)390 4168 y Fn>Returns:)36 b
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 4302 y Fn(Since:)41 b FB(2.8.0)150 4502 y
Fu(gn)m(utls)p 483 4502 37 5 v 55 w(x509)p 786 4502 V
54 w(crl)p 979 4502 V 54 w(set)p 1185 4502 V 54 w(this)p
1437 4502 V 55 w(up)s(date)3350 4699 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crl_set_t)q(his_)q(upd)q(ate)f
Fg(\))p Ff(gn)m(utls)p 2307 4699 28 4 v 41 w(x509)p 2531

4699 V 41 w(crl)p 2673 4699 V 40 w(t)31 b Fe(crl)12 b
Ff(,)565 4808 y(time)p 747 4808 V 41 w(t)31 b Fe(act_time)12
b Fg(\)390 4918 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m
(utls)p 1491 4918 V 41 w(x509)p 1715 4918 V 41 w(crl)p
1857 4918 V 40 w(t)h(structure)390 5053 y Ff(act)p 516
5053 V 41 w(time)5 b FB(:)42 b(The)30 b(actual)h(time)390
5188 y(This)f(function)g(will)g(set)h(the)g(time)g(this)f(CRL)g(w)m(as)
h(issued.)390 5322 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(197)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crl)p 979 299 V 54 w(set)p 1185 299 V 54 w(v)m(ersion)3350
495 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_set_v)q
(ersi)q(on)f Fg(\()p Ff(gn)m(utls)p 2098 495 28 4 v 41
w(x509)p 2322 495 V 41 w(crl)p 2464 495 V 40 w(t)31 b
Fe(crl)12 b Ff(,)31 b(unsigned)565 605 y(in)m(t)g Fe(version)12
b Fg(\)390 714 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m
(utls)p 1491 714 V 41 w(x509)p 1715 714 V 41 w(crl)p
1857 714 V 40 w(t)h(structure)390 849 y Ff(v)m(ersion)p
FB(:)41 b(holds)30 b(the)h(v)m(ersion)f(n)m(um)m(b)s(er.)40
b(F)-8 b(or)31 b(CRLv1)f(crls)h(m)m(ust)f(b)s(e)g(1.)390
983 y(This)j(function)g(will)h(set)g(the)g(v)m(ersion)g(of)f(the)h
(CRL.)f(This)g(m)m(ust)g(b)s(e)g(one)h(for)f(CRL)g(v)m(ersion)h(1,)390
1093 y(and)c(so)g(on.)41 b(The)30 b(CRLs)f(generated)j(b)m(y)e(gn)m
(utls)h(should)e(ha)m(v)m(e)j(a)f(v)m(ersion)f(n)m(um)m(b)s(er)f(of)i
(2.)390 1227 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 1426 y Fu(gn)m(utls)p
483 1426 37 5 v 55 w(x509)p 786 1426 V 54 w(crl)p 979
1426 V 54 w(sign2)3350 1622 y FB([F)d(unction))-3599
b Fh(int)53 b(gnutls_x509_crl_sign2)f Fg(\()p Ff(gn)m(utls)p
1784 1622 28 4 v 41 w(x509)p 2008 1622 V 41 w(crl)p 2150
1622 V 40 w(t)31 b Fe(crl)12 b Ff(,)31 b(gn)m(utls)p
2720 1622 V 40 w(x509)p 2943 1622 V 42 w(crt)p 3096 1622
V 40 w(t)565 1732 y Fe(issuer)12 b Ff(,)32 b(gn)m(utls)p
1192 1732 V 40 w(x509)p 1415 1732 V 42 w(privk)m(ey)p
1750 1732 V 40 w(t)f Fe(issuer_key)12 b Ff(,)33 b(gn)m(utls)p
2686 1732 V 40 w(digest)p 2958 1732 V 41 w(algorithm)p
3382 1732 V 41 w(t)e Fe(dig)12 b Ff(,)565 1842 y(unsigned)29
b(in)m(t)i Fe(flags)12 b Fg(\)390 1951 y Ff(crl)t FB(:)40
b(should)30 b(con)m(tain)i(a)e(gn)m(utls)p 1491 1951
V 41 w(x509)p 1715 1951 V 41 w(crl)p 1857 1951 V 40 w(t)h(structure)390
2085 y Ff(issuer)7 b FB(:)40 b(is)30 b(the)h(cert)014cate)h(of)f(the)f
(cert)014cate)j(issuer)390 2220 y Ff(issuer)p 620 2220
V 39 w(k)m(ey)8 b FB(:)42 b(holds)30 b(the)g(issuer's)g(priv)-5

b(ate)31 b(k)m(ey)390 2354 y Ff(dig)8 b FB(:)48 b(The)34
b(message)h(digest)g(to)g(use.)52 b(GNUTLS)p 2109 2354
V 40 w(DIG)p 2322 2354 V 40 w(SHA1)35 b(is)f(the)g(safe)h(c)m(hoic)h
(unless)e(y)m(ou)390 2464 y(kno)m(w)c(what)h(y)m(ou're)g(doing.)390
2598 y Ff(\015ags)t FB(:)41 b(m)m(ust)30 b(b)s(e)g(0)390
2732 y(This)22 b(function)h(will)h(sign)f(the)g(CRL)g(with)f(the)i
(issuer's)f(priv)-5 b(ate)23 b(k)m(ey)-8 b(,)26 b(and)d(will)g(cop)m(y)
h(the)f(issuer's)390 2842 y(information)31 b(in)m(to)g(the)g(CRL.)390
2976 y(This)25 b(m)m(ust)i(b)s(e)e(the)i(last)g(step)f(in)g(a)h
(certi\014cate)h(CRL)e(since)g(all)h(the)g(previously)f(set)h
(parameters)390 3086 y(are)k(no)m(w)f(signed.)390 3220
y Fn>Returns:36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3419 y Fu(gn)m(utls)p 483 3419 37 5 v 55
w(x509)p 786 3419 V 54 w(crl)p 979 3419 V 54 w(sign)3350
3615 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_sign)f
Fg(\()p Ff(gn)m(utls)p 1732 3615 28 4 v 40 w(x509)p 1955
3615 V 42 w(crl)p 2098 3615 V 40 w(t)31 b Fe(crl)12 b
Ff(),31 b(gn)m(utls)p 2668 3615 V 40 w(x509)p 2891 3615
V 42 w(crt)p 3044 3615 V 40 w(t)565 3725 y Fe(issuer)12
b Ff(),32 b(gn)m(utls)p 1192 3725 V 40 w(x509)p 1415
3725 V 42 w(privk)m(ey)p 1750 3725 V 40 w(tf Fe(issuer_key)12
b Fg(\)390 3835 y Ff(crl)t FB(:)40 b(should)30 b(con)m(tain)i(a)e(gn)m
(utls)p 1491 3835 V 41 w(x509)p 1715 3835 V 41 w(crl)p
1857 3835 V 40 w(t)h(structure)390 3969 y Ff(issuer)7
b FB(:)40 b(is)30 b(the)h(certi\014cate)h(of)f(the)f(certi\014cate)j
(issuer)390 4103 y Ff(issuer)p 620 4103 V 39 w(k)m(ey)8
b FB(:)42 b(holds)30 b(the)g(issuer's)g(priv)-5 b(ate)31
b(k)m(ey)390 4238 y(This)h(function)h(is)f(the)h(same)h(a)f
Fs(gnutls_x509_crl_sign2(\))26 b FB(with)33 b(no)g(\015ags,)g(and)g
(SHA1)g(as)390 4347 y(the)e(hash)e(algorithm.)390 4482
y Fn>Returns:36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 4680 y Fu(gn)m(utls)p 483 4680 37 5 v 55
w(x509)p 786 4680 V 54 w(crl)p 979 4680 V 54 w(v)m(erify)3350
4877 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_crl_verif)q(y)e
Fg(\()p Ff(gn)m(utls)p 1836 4877 28 4 v 41 w(x509)p 2060
4877 V 41 w(crl)p 2202 4877 V 41 w(t)30 b Fe(crl)12 b
Ff(),31 b(const)565 4986 y(gn)m(utls)p 811 4986 V 41
w(x509)p 1035 4986 V 41 w(crt)p 1187 4986 V 40 w(t)g(*)g
Fe(CA_list)12 b Ff(),32 b(in)m(tf Fe(CA_list_length)12
b Ff(),34 b(unsigned)29 b(in)m(ti Fe(flags)12 b Ff(),565
5096 y(unsigned)29 b(in)m(ti(*)g Fe(verify)12 b Fg(\)390
5206 y Ff(crl)t FB(:)40 b(is)31 b(the)f(crl)h(to)g(b)s(e)f(v)m
(eri\014ed)390 5340 y Ff(CA)p 530 5340 V 40 w(list)r
FB(:)41 b(is)31 b(a)f(certi\014cate)j(list)e(that)g(is)f(considered)g
(to)i(b)s(e)d(trusted)h(one)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(198)390 299 y
Ff(CA)p 530 299 28 4 v 40 w(list)p 691 299 V 41 w(length)p
FB(:)41 b(holds)30 b(the)g(n)m(um)m(b)s(er)f(of)i(CA)f(certif(014cates)i
(in)e(CA)p 2733 299 V 40 w(list)390 429 y Ff(\015ags)t
FB(:)51 b(Flags)37 b(that)f(ma)m(y)g(b)s(e)e(used)h(to)h(c)m(hange)h
(the)e(v)m(eri\014cation)i(algorithm.)57 b(Use)36 b(OR)f(of)h(the)390
539 y(gn)m(utls)p 636 539 V 40 w(certif(014cate)p 1063
539 V 43 w(v)m(erify)p 1328 539 V 40 w(\015ags)31 b(en)m(umerations.)
390 669 y Ff(v)m(erify)8 b FB(:)41 b(will)31 b(hold)f(the)g(crl)h(v)m
(eri\014cation)h(output.)390 800 y(This)27 b(function)h(will)g(try)f
(to)i(v)m(erify)f(the)g(giv)m(en)h(crl)f(and)f(return)g(its)h(status.)
40 b(See)28 b Fs(gnutls_x509_)390 910 y(cert_list_verify\(\))e
FB(for)k(a)h(detailed)g(description)f(of)h(return)e(v)-5
b(alues.)390 1040 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 1231 y Fu(gn)m(utls)p
483 1231 37 5 v 55 w(x509)p 786 1231 V 54 w(crq)p 1010
1231 V 54 w(deinit)3350 1420 y FB([F)d(unction)]-3599
b Fh(void)54 b(gnutls_x509_crq_deinit)e Fg(\()p Ff(gn)m(utls)p
1889 1420 28 4 v 40 w(x509)p 2112 1420 V 42 w(crq)p 2278
1420 V 40 w(t)30 b Fe(crq)12 b Fg(\))390 1530 y Ff(crq)r
FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)e(initialized)390
1660 y(This)h(function)g(will)g(deinitialize)j(a)e(CRL)e(structure.)150
1851 y Fu(gn)m(utls)p 483 1851 37 5 v 55 w(x509)p 786
1851 V 54 w(crq)p 1010 1851 V 54 w(exp)s(ort)3350 2040
y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_x509_crq_expor)q(t)e
Fg(\()p Ff(gn)m(utls)p 1836 2040 28 4 v 41 w(x509)p 2060
2040 V 41 w(crq)p 2225 2040 V 40 w(t)31 b Fe(crq)12 b
Ff(.)565 2150 y(gn)m(utls)p 811 2150 V 41 w(x509)p 1035
2150 V 41 w(cert)p 1187 2150 V 40 w(fm)m(t)p 1363 2150
V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(v)m(oid)f(*)g
Fe(output_data)12 b Ff(,)33 b(size)p 2906 2150 V 41 w(t)e(*)565
2259 y Fe(output_data_size)12 b Fg(\))390 2369 y Ff(crq)r
FB(:)41 b(Holds)30 b(the)h(request)390 2500 y Ff(format)r
FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 2630 y Ff(output)p
664 2630 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(a)e
(certif(014cate)j(request)d(PEM)h(or)f(DER)g(enco)s(ded)390
2761 y Ff(output)p 664 2761 V 40 w(data)p 880 2761 V
40 w(size)5 b FB(:)49 b(holds)34 b(the)g(size)h(of)h(output)p
2093 2761 V 39 w(data)h(\(and)f(will)g(b)s(e)f(replaced)i(b)m(y)e(the)i
(actual)390 2870 y(size)c(of)g(parameters\))390 3001
y(This)f(function)g(will)g(exp)s(ort)g(the)h(certif(014cate)h(request)f
(to)g(a)g(PK)m(CS10)390 3131 y(If)91 b(the)g(bu\013er)f(prom(vided)h
(is)g(not)h(long)g(Enough)f(to)h(hold)f(the)g(output.)106
b(then)390 3241 y(GNUTLS)p 777 3241 V 40 w(E)p 879 3241
V 40 w(SHOR)-8 b(T)p 1234 3241 V 39 w(MEMOR)g(Y)p 1699

3241 V 41 w(BUFFER)42 b(will)f(b)s(e)f(returned)g(and)g(*output)p
 3357 3241 V 40 w(data)p 3573 3241 V 41 w(size)390 3350
 y(will)31 b(b)s(e)u(s(dated.))390 3481 y(If)j(the)h(structure)g(is)g
 (PEM)f(enco)s(ded,)i(it)f(will)g(ha)m(v)m(e)h(a)f(header)g(of)g
 Fs(")p FB(BEGIN)g(NEW)g(CER)-8 b(TIFI-)390 3590 y(CA)g(TE)30
 b(REQUEST)p Fs(")p FB(.)390 3721 y Fn(Return)g(v)-5 b(alue:)41
 b FB(In)30 b(case)h(of)g(failure)f(a)h(negativ)m(e)i(v)-5
 b(alue)30 b(will)h(b)s(e)f(returned,)f(and)h(0)h(on)f(success.)150
 3912 y Fu(gn)m(utls)p 483 3912 37 5 v 55 w(x509)p 786
 3912 V 54 w(crq)p 1010 3912 V 54 w(get)p 1229 3912 V
 54 w(attribute)p 1763 3912 V 53 w(b)m(y)p 1946 3912 V
 54 w(oid)3350 4101 y FB([F]-8 b(unction])-3599 b Fh(int)53
 b(gnutls_x509_crq_get_a)q(ttri)q(but)q(e_b)q(y_o)q(id)f
 Fg(\()p Ff(gn)m(utls)p 2569 4101 28 4 v 40 w(x509)p 2792
 4101 V 42 w(crq)p 2958 4101 V 40 w(t)565 4211 y Fe(crq)12
 b Ff(,)31 b(const)g(c)m(har)g(*)f Fe(oid)12 b Ff(,)31
 b(in)m(t)g Fe(indx)12 b Ff(,)32 b(v)m(oid)f(*)f Fe(buf)12
 b Ff(,)31 b(size)p 2585 4211 V 41 w(t)g(*)g Fe(sizeof_buf)12
 b Fg(\()390 4320 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f(gn)m
 (utls)p 1513 4320 V 40 w(x509)p 1736 4320 V 41 w(crq)p
 1901 4320 V 40 w(t)g(structure)390 4451 y Ff(oid)t FB(:)40
 b(holds)30 b(an)h(Ob)5 b(ject)30 b(Ide)n(m(ti\014ed)g(in)g(n)m(ull)g
 (terminated)h(string)390 4581 y Ff(indx)6 b FB(:)50 b(In)35
 b(case)h(m)m(ultiple)g(same)g(OIDS)f(exist)h(in)f(the)g(attribute)h
 (list,)i(this)d(sp)s(eci\014es)g(whic)m(h)g(to)390 4691
 y(send.)40 b(Use)31 b(zero)g(to)g(get)g(the)g(\014rst)f(one.)390
 4821 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)
 f(to)h(hold)f(the)h(attribute)g(data)g(\(ma)m(y)g(b)s(e)f(n)m(ull))390
 4952 y Ff(sizeof)p 610 4952 V 41 w(buf)17 b FB(:)40 b(initially)32
 b(holds)e(the)g(size)i(of)e Fs(buf)390 5082 y FB(This)c(function)g
 (will)h(return)e(the)i(attribute)h(in)e(the)h(cert\014cate)h(request)f
 (sp)s(eci\014ed)f(b)m(y)g(the)h(giv)m(en)390 5192 y(Ob)5
 b(ject)31 b(ID.)f(The)g(attribute)h(will)g(b)s(e)f(DER)g(enco)s(ded.)
 390 5322 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)
 16 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
 b(alue.)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(199)150 299 y
 Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
 w(crq)p 1010 299 V 54 w(get)p 1229 299 V 54 w(attribute)p
 1763 299 V 53 w(data)3350 497 y FB([F]-8 b(unction])-3599
 b Fh(int)53 b(gnutls_x509_crq_get_a)q(ttri)q(but)q(e_d)q(ata)f
 Fg(\()p Ff(gn)m(utls)p 2464 497 28 4 v 41 w(x509)p 2688
 497 V 41 w(crq)p 2853 497 V 40 w(t)31 b Fe(cert)12 b
 Ff(,)565 607 y(in)m(t)31 b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
 Fe(data)12 b Ff(,)31 b(size)p 1676 607 V 41 w(t)g(*)g
 Fe(sizeof_data)12 b Fg(\()390 717 y Ff(cert)r FB(:)41

b(should)30 b(con)m(tain)h(a)g Fs(gnutls_x509_crq_t)26
b FB(structure)390 853 y Ff(indx)6 b FB(:)40 b(Sp)s(eci\014es)30
b(whic)m(h)g(attribute)h(OID)f(to)h(send.)40 b(Use)31
b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390 989 y Ff(data)p
FB(:)41 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g(to)h(hold)f(the)h
(data)g(\(ma)m(y)g(b)s(e)f(n)m(ull\))390 1125 y Ff(sizeof)p
610 1125 V 41 w(data)p FB(:)42 b(initially)31 b(holds)f(the)h(size)g
(of)g Fs(oid)390 1262 y FB(This)f(function)g(will)h(return)e(the)i
(requested)f(attribute)h(data)g(in)f(the)h(cert\014cate)h(request.)41
b(The)390 1371 y(attribute)31 b(data)g(will)g(b)s(e)f(stored)g(as)h(a)f
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y(Use)48 b Fs(gnutls_x509_crq_get_attr)o(ibut)o(e_in)o(fo\()\o(\))42
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1727 y(the)31 b(attribute)g(OID)f(rather)g(than)g(sequence.)390
1863 y Fn>Returns:)71 b FB(On)45 b(success,)50 b Fs(GNUTLS_E_SUCCESS)42
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b(lf)43 b(y)m(our)h(ha)m(v)m(e)h(reac)m(hed)f(the)g(last)h(extension)f
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390 2218 y Fn(Since:)41 b FB(2.8.0)150 2419 y Fu(gn)m(utls)p
483 2419 37 5 v 55 w(x509)p 786 2419 V 54 w(crq)p 1010
2419 V 54 w(get)p 1229 2419 V 54 w(attribute)p 1763 2419
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1760 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crq_get_c)q
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b(ject,)390 4277 y(sp)s(eci\014ed)37 b(b)m(y)h(the)g(giv)m(en)h(OID.)f
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(dated)g(with)h(the)g(required)g(size.)390 5340 y(On)g(success)g(0)h
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Fh(int)53 b(gnutls_x509_crq_get_d)q(n_oi)q(d)f Fg(\)p
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Fe(oid)12 b Ff(,)31 b(size)p 1209 612 V 41 w(t)f(*)h
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1005 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
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1146 y Ff(sizeof)p 610 1146 V 41 w(oid)t FB(:)41 b(initially)31
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y(On)g(success)g(0)h(is)f(returned.)150 2106 y Fu(gn)m(utls)p
483 2106 37 5 v 55 w(x509)p 786 2106 V 54 w(crq)p 1010

2106 V 54 w(get)p 1229 2106 V 54 w(dn)3350 2310 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_x509_crq_get_d)q(n)e
Fg(\()p Ff(gn)m(utls)p 1836 2310 28 4 v 41 w(x509)p 2060
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V 40 w(t)g(structure)390 2670 y Ff(buf)16 b FB(:)41 b(a)31
b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h(hold)f(the)h(name)f(\(ma)m
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3282 y(cert\014cate)32 b(data.)390 3423 y(If)e Fs(buf)f
FB(is)i(n)m(ull)f(then)g(only)h(the)f(size)h(will)g(b)s(e)f(\014lled.)
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(the)g(required)g(size.)390 3784 y(On)g(success)g(0)h(is)f(returned.)
150 3990 y Fu(gn)m(utls)p 483 3990 37 5 v 55 w(x509)p
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V 54 w(extension)p 1787 3990 V 55 w(b)m(y)p 1972 3990
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4194 V 42 w(crq)p 2958 4194 V 40 w(t)565 4304 y Fe(cert)12
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FB(:)40 b(holds)30 b(an)h(Ob)5 b(ject)30 b(Ide)n)m(ti\014ed)g(in)g(n)m
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b(In)25 b(case)i(m)m(ultiple)g(same)f(OIDs)g(exist)g(in)g(the)g
(extensions,)i(this)e(sp)s(eci\014es)f(whic)m(h)h(to)g(send.)390
4915 y(Use)31 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390
5057 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)
f(to)h(hold)f(the)h(name)f(\(ma)m(y)h(b)s(e)f(n)m(ull\))390
5198 y Ff(sizeof)p 610 5198 V 41 w(buf)17 b FB(:)40 b(initially)32

b(holds)e(the)g(size)i(of)e Fs(buf)390 5340 y Ff(critical)t
FB(:)42 b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h(extension)g(is)f
(mark)m(ed)g(as)h(critical)p eop end
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b(function)g(will)h(return)e(the)i(extension)g(sp)s(eci\014ed)e(b)m(y)i
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y(extensions)31 b(will)g(b)s(e)e(returned)h(as)g(binary)g(data)h(DER)f
(enco)s(ded,)h(in)f(the)g(prom(vided)g(bu\013er.)390
548 y Fn>Returns:)50 b FB(On)34 b(success,)j Fs(GNUTLS_E_SUCCESS)31
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b(alue)35 b(in)390 657 y(case)29 b(of)f(an)g(error.)40
b(If)27 b(the)h(cert)\014cate)i(do)s(es)e(not)g(con)m(tain)h(the)g(sp)s
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(REQUESTED_DATA_NOT_AVAIL)o(ABLE)c FB(will)30 b(b)s(e)g(returned.)390
906 y Fn(Since:)41 b FB(2.8.0)150 1110 y Fu(gn)m(utls)p
483 1110 37 5 v 55 w(x509)p 786 1110 V 54 w(crq)p 1010
1110 V 54 w(get)p 1229 1110 V 54 w(extension)p 1787 1110
V 55 w(data)3350 1312 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_x509_crq_get_e)q(xten)q(sio)q(n_d)q(ata)f Fg(\()p
Ff(gn)m(utls)p 2464 1312 28 4 v 41 w(x509)p 2688 1312
V 41 w(crq)p 2853 1312 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
1421 y(in)m(t)31 b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(data)12 b Ff(,)31 b(size)p 1676 1421 V 41 w(t)g(*)g
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b(whic)m(h)g(extension)h(OID)f(to)h(send.)40 b(Use)31
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FB(:)41 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g(to)h(hold)f(the)h
(data)g(\(ma)m(y)g(b)s(e)f(n)m(ull\))390 1949 y Ff(sizeof)p
610 1949 V 41 w(data)p FB(:)42 b(initially)31 b(holds)f(the)h(size)g
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(requested)f(extension)h(data)g(in)f(the)h(cert)\014cate.)39
b(The)21 b(extension)390 2197 y(data)31 b(will)g(b)s(e)f(stored)g(as)h
(a)f(string)h(in)f(the)g(prom(vided)g(bu\013er.)390
2337 y(Use)i Fs(gnutls_x509_crq_get_ext)o(ensi)o(on_i)o(nfo)o(\()25
b FB(to)32 b(extract)h(the)f(OID)f(and)g(critical)i(\015ag.)390
2446 y(Use)41 b Fs(gnutls_x509_crq_get_exten)o(sio)o(n_by)o(_oid)o
(\()34 b FB(instead,)44 b(if)d(y)m(ou)g(w)m(an)m(t)h(to)f(get)h(data)
390 2556 y(indexed)30 b(b)m(y)g(the)h(extension)g(OID)f(rather)g(than)g
(sequence.)390 2695 y Fn>Returns:)71 b FB(On)45 b(success,)50
b Fs(GNUTLS_E_SUCCESS)42 b FB(is)j(returned,)k(otherwise)d(a)g(negativ)
m(e)i(v)-5 b(alue)390 2805 y(in)43 b(case)i(of)f(an)g(error.)80
b(If)43 b(y)m(our)h(ha)m(v)m(e)h(reac)m(hed)f(the)g(last)h(extension)f
(a)m(v)-5 b(ailable)46 b Fs(GNUTLS_E_)390 2914 y
(REQUESTED_DATA_NOT_AVAIL)o(ABLE)24 b FB(will)30 b(b)s(e)g(returned.)

390 3053 y Fn(Since:)41 b FB(2.8.0)150 3257 y Fu(gn)m(utls)p
483 3257 37 5 v 55 w(x509)p 786 3257 V 54 w(crq)p 1010
3257 V 54 w(get)p 1229 3257 V 54 w(extension)p 1787 3257
V 55 w(info)3350 3459 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_x509_crq_get_e)q(xten)q(sio)q(n_i)q(nfo)f Fg(\()p
Ff(gn)m(utls)p 2464 3459 28 4 v 41 w(x509)p 2688 3459
V 41 w(crq)p 2853 3459 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
3569 y(in)m(t)31 b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(oid)12 b Ff(,)31 b(size)p 1624 3569 V 41 w(t)g(*)f
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b Fg(\()390 3678 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
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b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(extension)h(OID)f(to)h
(send.)40 b(Use)31 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390
3957 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
(to)h(hold)f(the)h(OID)390 4096 y Ff(sizeof)p 610 4096
V 41 w(oid)t FB(:)38 b(initially)26 b(holds)e(the)h(maxim)m(um)g(size)h
(of)f Fs(oid)p FB(,)g(on)g(return)e(holds)i(actual)h(size)g(of)f
Fs(oid)p FB(,)390 4235 y Ff(critical)t FB(:)42 b(output)30
b(v)-5 b(ariable)31 b(with)f(critical)j(\015ag,)e(ma)m(y)g(b)s(e)
(NULL.)390 4374 y(This)43 b(function)h(will)g(return)f(the)h(requested)
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(gnutls_x509_crq_get_extens)o(ion_)o(dat)o(a(\))24 b
FB(to)31 b(extract)h(the)e(data.)390 4733 y(If)37 b(the)h(bu\013er)e
(pro)m(vided)h(is)h(not)f(long)h(enough)g(to)g(hold)f(the)h(output,)h
(then)e(*)p Fs(sizeof_oid)e FB(is)390 4842 y(up)s(dated)29
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b(success,)50 b Fs(GNUTLS_E_SUCCESS)42 b FB(is)j(returned,)k(otherwise)
d(a)g(negativ)m(e)i(v)-5 b(alue)390 5091 y(in)43 b(case)i(of)f(ang
(error.)80 b(If)43 b(y)m(our)h(ha)m(v)m(e)h(reac)m(hed)f(the)g(last)h
(extension)f(a)m(v)-5 b(ailable)46 b Fs(GNUTLS_E_)390
5201 y(REQUESTED_DATA_NOT_AVAIL)o(ABLE)24 b FB(will)30
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1466 299 V 53 w(id)3350 487 y FB([F]-8 b(unction))-3599
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706 y Ff(crqr FB(:)41 b(Holds)30 b(the)h(cert\014cate)h(signing)f
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(no)m(w)390 966 y Ff(output)p 664 966 V 40 w(data)p FB(:)41
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Ff(output)p 664 1097 V 40 w(data)p 880 1097 V 40 w(size)5
b FB(:)49 b(holds)34 b(the)g(size)h(of)f(output)p 2093
1097 V 39 w(data)h(\(and)f(will)g(b)s(e)f(replaced)i(b)m(y)e(the)i
(actual)390 1206 y(size)c(of)g(parameters))390 1336
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(ends)d(on)i(the)h(public)e(k)m(ey)i(parameters.)40 b(This)390
1446 y(ID)27 b(can)g(b)s(e)g(used)f(in)g(c)m(hec)m(king)j(whether)d(a)i
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(vided)g(is)g(not)h(long)h(Enough)e(to)h(hold)g(the)f(output,)h(then)f
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39 w(MEMOR)g(Y)p 2365 1686 V 41 w(BUFFER)45 b(will)g(b)s(e)e(returned.)
81 b(The)390 1795 y(output)30 b(will)h(normally)f(b)s(e)g(a)h(SHA-1)g
(hash)e(output,)i(whic)m(h)f(is)g(20)h(b)m(ytes.)390
1925 y Fn(Return)f(v)-5 b(alue:)41 b FB(In)30 b(case)h(of)g(failure)f
(a)h(negativ)m(e)i(v)-5 b(alue)30 b(will)h(b)s(e)f(returned,)f(and)h(0)
h(on)f(success.)390 2055 y Fn(Since:)41 b FB(2.8.0)150
2246 y Fu(gn)m(utls)p 483 2246 37 5 v 55 w(x509)p 786
2246 V 54 w(crq)p 1010 2246 V 54 w(get)p 1229 2246 V
54 w(k)m(ey)p 1466 2246 V 53 w(purp)s(ose)p 1941 2246
V 56 w(oid)3350 2434 y FB([F]-8 b(unction])-3599 b Fh(int)53
b(gnutls_x509_crq_get_k)q(ey_p)q(urp)q(ose)q(_oi)q(d)e
Fg(\(p Ff(gn)m(utls)p 2516 2434 28 4 v 41 w(x509)p 2740
2434 V 41 w(crq)p 2905 2434 V 40 w(t)565 2544 y Fe(cert)12
b Ff(,)31 b(in)m(t)g Fe(indx)12 b Ff(,)32 b(v)m(oid)f(*)f
Fe(oid)12 b Ff(,)31 b(size)p 1900 2544 V 41 w(t)g(*)g
Fe(sizeof_oid)12 b Ff(,)33 b(unsigned)c(in)m(t)i(*)g
Fe(critical)12 b Fg())390 2653 y Ff(cert)r FB(:)41 b(should)30
b(con)m(tain)h(a)g Fs(gnutls_x509_crq_t)26 b FB(structure)390
2783 y Ff(indx)6 b FB(:)40 b(This)30 b(sp)s(eci\014es)g(whic)m(h)g(OID)
g(to)h(return.)40 b(Use)31 b(zero)g(to)g(get)g(the)g(\014rst)f(one.)390
2913 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(bu\013er)g
(to)h(hold)f(the)h(OID)f(\(ma)m(y)h(b)s(e)f(n)ull))390
3044 y Ff(sizeof)p 610 3044 V 41 w(oid)t FB(:)41 b(initially)31
b(holds)f(the)h(size)g(of)g Fs(oid)390 3174 y Ff(critical)t
FB(:)42 b(output)30 b(v)-5 b(ariable)31 b(with)f(critical)j(\015ag,)e
(ma)m(y)g(b)s(e)g(NULL.)390 3304 y(This)36 b(function)h(will)h(extract)
g(the)g(k)m(ey)g(purp)s(ose)d(OIDs)i(of)g(the)h(Certi\014cate)g(sp)s
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390 3783 y Fn>Returns:)39 b Fs(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o(R)21
b FB(if)27 b(the)h(pro)m(vided)e(bu)013er)h(is)g(not)g(long)h(enough,)
390 3893 y(and)h(in)h(that)g(case)h(the)f(*sizeof)p 1481
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(size.)41 b(On)29 b(success)i(0)390 4002 y(is)f(returned.)390
4133 y Fn(Since:)41 b FB(2.8.0)150 4323 y Fu(gn)m(utls)p
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4323 V 54 w(get)p 1229 4323 V 54 w(k)m(ey)p 1466 4323
V 53 w(rsa)p 1677 4323 V 54 w(ra)m(w)3350 4511 y FB([F]-8
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(raw)f Fg(\()p Ff(gn)m(utls)p 2307 4511 28 4 v 41 w(x509)p
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1110 4621 V 39 w(t)31 b(*)g Fe(m)12 b Ff(,)30 b(gn)m(utls)p
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4991 y Ff(e)5 b FB(:)41 b(will)31 b(hold)f(the)g(public)g(exp)s(onen)m
(t)390 5121 y(This)h(function)g(will)g(exp)s(ort)g(the)h(RSA)f(public)f
(k)m(ey's)i(parameters)g(found)e(in)h(the)h(giv)m(en)g(struc-)390
5230 y(ture.)38 b(The)21 b(new)h(parameters)h(will)f(b)s(e)g(allo)s
(cated)i(using)d Fs(gnutls_malloc(\))d FB(and)k(will)g(b)s(e)g(stored)
390 5340 y(in)30 b(the)h(appropriate)f(datum.)p eop end
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b(alue.)390 432 y Fn(Since:)41 b FB(2.8.0)150 630 y Fu(gn)m(utls)p
483 630 37 5 v 55 w(x509)p 786 630 V 54 w(crq)p 1010
630 V 54 w(get)p 1229 630 V 54 w(k)m(ey)p 1466 630 V
53 w(usage)3350 824 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_x509_crq_get_k)q(ey_u)q(sag)q(e)e Fg(\()p Ff(gn)m(utls)p
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(parsing)g(error:).64 b(If)390 2259 y(the)30 b(cert)\014cate)h(do)s(es)e
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FB(2.8.0)150 2699 y Fu(gn)m(utls)p 483 2699 37 5 v 55
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1229 2699 V 54 w(pk)p 1416 2699 V 54 w(algorithm)3350
2894 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crq_get_p)q
(k_al)q(gor)q(ith)q(m)e Fg(\()p Ff(gn)m(utls)p 2359 2894
28 4 v 41 w(x509)p 2583 2894 V 41 w(crq)p 2748 2894 V
40 w(t)31 b Fe(crq)12 b Ff(,)565 3003 y(unsigned)29 b(in)m(t)i(*)g
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3380 y(This)e(function)g(will)h(return)f(the)h(public)f(k)m(ey)h
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390 3513 y(If)e(bits)g(is)g(non)g(n)m(ull,)g(it)h(should)e(ha)m(v)m(e)i
(enough)f(size)h(to)g(hold)f(the)h(parameters)f(size)h(in)f(bits.)40
b(F)-8 b(or)390 3623 y(RSA)33 b(the)h(bits)f(returned)f(is)i(the)f(mo)s
(dulus.)49 b(F)-8 b(or)34 b(DSA)f(the)h(bits)f(returned)f(are)i(of)g
(the)g(public)390 3733 y(exp)s(onen)m(t.)390 3866 y Fn>Returns:)61
b FB(a)40 b(mem)m(b)s(er)g(of)h(the)g Fs(gnutls_pk_algorithm_t)34
b FB(en)m(umeration)41 b(on)g(success,)i(or)e(a)390 3976
y(negativ)m(e)33 b(v)-5 b(alue)30 b(on)h(error.)150 4173
y Fu(gn)m(utls)p 483 4173 37 5 v 55 w(x509)p 786 4173
V 54 w(crq)p 1010 4173 V 54 w(get)p 1229 4173 V 54 w(sub)7
b(ject)p 1670 4173 V 54 w(alt)p 1866 4173 V 54 w(name)3350
4368 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crq_get_s)q
(ubje)q(ct_)q(alt)q(_na)q(me)f Fg(\()p Ff(gn)m(utls)p
2569 4368 28 4 v 40 w(x509)p 2792 4368 V 42 w(crq)p 2958
4368 V 40 w(t)565 4477 y Fe(cert)12 b Ff(,)31 b(unsigned)f(in)m(t)h
Fe(seq)12 b Ff(,)31 b(v)m(oid)g(*)f Fe(ret)12 b Ff(,)31
b(size)p 2227 4477 V 41 w(t)g(*)g Fe(ret_size)12 b Ff(,)32
b(unsigned)d(in)m(t)i(*)565 4587 y Fe(ret_type)12 b Ff(,)33
b(unsigned)c(in)m(t)i(*)g Fe(critical)12 b Fg(\()390

4696 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_crq_t)26 b FB(structure)390 4830 y Ff(seq)r
FB(:)38 b(sp)s(eci\014es)24 b(the)g(sequence)h(n)m(um)m(b)s(er)e(of)h
(the)h(alt)g(name,)h(0)f(for)f(the)g(\014rst)g(one,)i(1)e(for)g(the)h
(second)390 4940 y(etc.)390 5073 y Ff(ret)r FB(:)41 b(is)30
b(the)h(place)g(wher)f(the)h(alternativ)m(e)i(name)d(will)h(b)s(e)
(copied)i(to)390 5206 y Ff(ret)p 507 5206 V 40 w(size)5
b FB(:)42 b(holds)30 b(the)g(size)i(of)e(ret.)390 5340
y Ff(ret)p 507 5340 V 40 w(t)m(yp)s(e)5 b FB(:)41 b(holds)30
b(the)h Fs(gnutls_x509_subject_alt_)o(nam)o(e_t)24 b
FB(name)30 b(t)m(yp)s(e)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(205)390 299 y
Ff(critical)t FB(:)42 b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h
(extension)g(is)f(mark)m(ed)g(as)h(critical)h(\(ma)m(y)g(b)s(ed)n)m
(ull))390 453 y(This)g(function)h(will)h(return)e(the)h(alternativ)m
(e)i(names,)f(con)m(tained)g(in)f(the)g(giv)m(en)h(cert\014cate.)43
b(It)390 563 y(is)31 b(the)f(same)h(as)g Fs(gnutls_x509_crq_get_subje
(ct_)o(alt_)o(name)o(\())24 b FB(except)32 b(for)e(the)h(fact)g(that)
390 672 y(it)h(will)g(return)f(the)h(t)m(yp)s(e)g(of)f(the)h
(alternativ)m(e)j(name)c(in)h Fs(ret_type)d FB(ev)m(en)j(if)g(the)g
(function)f(fails)390 782 y(for)f(some)h(reason)g(\(i.e.)41
b(the)31 b(bu\013er)e(pro)m(vided)h(is)h(not)f(enough\.)390
936 y Fn>Returns:)81 b FB(the)50 b(alternativ)m(e)j(sub)5
b(ject)51 b(name)f(t)m(yp)s(e)h(on)f(success,)56 b(one)51
b(of)g(the)g(en)m(umerated)390 1046 y Fs(gnutls_x509_subject_alt_)o
(name)o(_t)p FB(.)166 b(It)75 b(will)g(return)e Fs
(GNUTLS_E_SHORT_MEMORY_)390 1155 y(BUFFER)65 b FB(if)i
Fs(ret_size)d FB(is)j(not)g(large)h(enough)f(to)g(hold)g(the)g(v)-5
b(alue.)150 b(In)66 b(that)i(case)390 1265 y Fs(ret_size)60
b FB(will)j(b)s(e)u(s)dated)g(with)i(the)f(required)g(size.)137
b(If)62 b(the)g(cert\014cate)j(request)390 1375 y(do)s(es)59
b(not)h(ha)m(v)m(e)h(an)f(Alternativ)m(e)i(name)d(with)h(the)g(sp)s
(eci\014ed)f(sequence)h(n)m(um)m(b)s(er)e(then)390 1484
y Fs(GNUTLS_E_REQUESTED_DATA_)o(NOT_)o(AVAI)o(LAB)o(LE)24
b FB(is)31 b(returned.)390 1638 y Fn(Since:)41 b FB(2.8.0)150
1857 y Fu(gn)m(utls)p 483 1857 37 5 v 55 w(x509)p 786
1857 V 54 w(crq)p 1010 1857 V 54 w(get)p 1229 1857 V
54 w(sub)7 b(ject)p 1670 1857 V 54 w(alt)p 1866 1857
V 54 w(othertype)p 2489 1857 V 54 w(oid)3350 2074 y FB([F)-8
b(unction)]-3599 b Fh(int)53 b(gnutls_x509_crq_get_s)q(ubje)q(ct_)q
(alt)q(_ot)q(hern)q(ame)q(_oi)q(d)565 2183 y Fg(\()p
Ff(gn)m(utls)p 846 2183 28 4 v 41 w(x509)p 1070 2183
V 41 w(crq)p 1235 2183 V 40 w(t)31 b Fe(cert)12 b Ff(,)31
b(unsigned)e(in)m(t)i Fe(seq)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(ret)12 b Ff(,)31 b(size)p 2997 2183 V 41 w(t)g(*)f
Fe(ret_size)12 b Fg(\()390 2293 y Ff(cert)r FB(:)41 b(should)30

b(con)m(tain)h(a)g Fs(gnutls_x509_crq_t)26 b FB(structure)390
2447 y Ff(seq)r FB(:)38 b(sp)s(eci\014es)23 b(the)h(sequence)g(n)m(um)m
(b)s(er)f(of)g(the)h(alt)h(name)f(\(0)g(for)g(the)g(\014rst)f(one,)i(1)
f(for)g(the)g(second)390 2557 y(etc.\))390 2711 y Ff(ret)r
FB(:)41 b(is)30 b(the)h(place)g(where)f(the)h(otherName)g(OID)f(will)h
(b)s(e)f(copied)h(to)390 2865 y Ff(ret)p 507 2865 V 40
w(size)5 b FB(:)42 b(holds)30 b(the)g(size)i(of)e(ret.)390
3020 y(This)f(function)g(will)h(extract)g(the)g(t)m(yp)s(e)g(OID)f(of)h
(an)f(otherName)h(Sub)5 b(ject)29 b(Alternativ)m(e)j(Name,)390
3129 y(con)m(tained)g(in)e(the)g(giv)m(en)i(cert\014cate,)g(and)e
(return)f(the)i(t)m(yp)s(e)f(as)h(an)f(en)m(umerated)h(elemen)m(t.)390
3283 y(This)c(function)g(is)g(only)g(useful)g(if)g Fs
(gnutls_x509_crq_get_subje)o(ct_a)o(lt_)o(name)o(\(0))21
b FB(returned)390 3393 y Fs(GNUTLS_SAN_OTHERNAME)p FB(.)390
3547 y Fn>Returns:)81 b FB(the)50 b(alternativ)m(e)j(sub)5
b(ject)51 b(name)f(t)m(yp)s(e)h(on)f(success,)56 b(one)51
b(of)g(the)g(en)m(umerated)390 3657 y(gn)m(utls)p 636
3657 V 40 w(x509)p 859 3657 V 42 w(sub)5 b(ject)p 1187
3657 V 40 w(alt)p 1332 3657 V 41 w(name)p 1585 3657 V
40 w(t.)39 b(F)-8 b(or)24 b(supp)s(orted)f(OIDs,)i(it)g(will)f(return)f
(one)h(of)g(the)h(virtual)390 3766 y(\(GNUTLS)p 812 3766
V 40 w(SAN)p 1039 3766 V 40 w(OTHERNAME)p 1694 3766 V
40 w(*))79 b(t)m(yp)s(es,)90 b(e.g.)185 b Fs(GNUTLS_SAN_OTHERNAME_XM)o
(PP)p FB(,)390 3876 y(and)43 b Fs(GNUTLS_SAN_OTHERNAME)38
b FB(for)43 b(unkno)m(w)n)f(OIDs.)80 b(It)44 b(will)g(return)e
Fs(GNUTLS_E_SHORT_)390 3986 y(MEMORY_BUFFER)f FB(if)j
Fs(ret_size)f FB(is)h(not)h(large)h(enough)e(to)h(hold)f(the)h(v)-5
b(alue.)84 b(In)44 b(that)h(case)390 4095 y Fs(ret_size)30
b FB(will)j)b(s)e)e(up)s(dated)g(with)h(the)g(required)g(size.)47
b(If)32 b(the)g(cert\014cate)i(do)s(es)e(not)h(ha)m(v)m(e)g(an)390
4205 y(Alternativ)m(e)h(name)f(with)e(the)i(sp)s(eci\014ed)e(sequence)i
(n)m(um)m(b)s(er)e(and)g(with)h(the)h(otherName)g(t)m(yp)s(e)390
4314 y(then)d Fs(GNUTLS_E_REQUESTED_DATA_N)o(OT_)o(AVAI)o(LABL)o(E)24
b FB(is)31 b(returned.)390 4469 y Fn(Since:)41 b FB(2.8.0)150
4688 y Fu(gn)m(utls)p 483 4688 37 5 v 55 w(x509)p 786
4688 V 54 w(crq)p 1010 4688 V 54 w(get)p 1229 4688 V
54 w(v)m(ersion)3350 4904 y FB([F)-8 b(unction)]-3599
b Fh(int)53 b(gnutls_x509_crq_get_v)q(ersi)q(on)f Fg(\(0)p
Ff(gn)m(utls)p 2098 4904 28 4 v 41 w(x509)p 2322 4904
V 41 w(crq)p 2487 4904 V 40 w(t)31 b Fe(crq)12 b Fg(\(0))390
5014 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f(gn)m(utls)p
1513 5014 V 40 w(x509)p 1736 5014 V 41 w(crq)p 1901 5014
V 40 w(t)g(structure)390 5168 y(This)f(function)g(will)g(return)g(the)g
(v)m(ersion)h(of)g(the)f(sp)s(eci\014ed)g(Certi\014cate)i(request.)390
5322 y Fn>Returns:)40 b FB(v)m(ersion)31 b(of)g(cert\014cate)h
(request,)f(or)f(a)h(negativ)m(e)i(v)-5 b(alue)30 b(on)h(error.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(206)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crq)p 1010 299 V 54 w(imp)s(ort)3350 501 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_imp)q(t)e
Fg(\()p Ff(gn)m(utls)p 1836 501 28 4 v 41 w(x509)p 2060
501 V 41 w(crq)p 2225 501 V 40 w(t)31 b Fe(crq)12 b Ff(,)31
b(const)565 610 y(gn)m(utls)p 811 610 V 41 w(datum)p
1110 610 V 39 w(t)g(*)g Fe(data)12 b Ff(,)31 b(gn)m(utls)p
1807 610 V 40 w(x509)p 2030 610 V 42 w(crt)p 2183 610
V 40 w(fm)m(t)p 2359 610 V 40 w(t)g Fe(format)12 b Fg(\()390
720 y Ff(crq)r FB(:)41 b(The)30 b(structure)g(to)h(store)g(the)f
(parsed)g(cert\014cate)i(request.)390 859 y Ff(data)p
FB(:)41 b(The)30 b(DER)h(or)f(PEM)h(enco)s(ded)f(cert\014cate.)390
998 y Ff(format)r FB(:)41 b(One)30 b(of)g(DER)h(or)f(PEM)390
1138 y(This)i(function)g(will)h(con)m(v)m(ert)h(the)e(giv)m(en)i(DER)e
(or)h(PEM)f(enco)s(ded)g(Cert\014cate)i(to)f(the)g(nativ)m(e)390
1247 y(gn)m(utls)p 636 1247 V 40 w(x509)p 859 1247 V
42 w(crq)p 1025 1247 V 40 w(t)d(format.)41 b(The)30 b(output)g(will)h
(b)s(e)f(stored)g(in)g Fs(cert)p FB(.)390 1387 y(IF)f(the)i
(Cert\014cate)g(is)f(PEM)g(enco)s(ded)f(it)i(should)h(m)v(m)e(k)a(e
(header)g(of)g Fs(")p FB(NEW)g(CER)-8 b(TIFICA)g(TE)390
1496 y(REQUEST)p Fs(")p FB(.)390 1636 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1840 y Fu(gn)m(utls)p 483 1840 37 5 v 55
w(x509)p 786 1840 V 54 w(crq)p 1010 1840 V 54 w(init)3350
2041 y FB([F)d(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_init)f
Fg(\()p Ff(gn)m(utls)p 1732 2041 28 4 v 40 w(x509)p 1955
2041 V 42 w(crq)p 2121 2041 V 40 w(t)30 b(*)h Fe(crq)12
b Fg(\()390 2151 y Ff(crq)r FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)e
(initialized)390 2290 y(This)h(function)g(will)g(initialize)j(a)e(PK)m
(CS10)f(cert\014cate)j(request)d(structure.)390 2430
y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2634 y Fu(gn)m(utls)p 483 2634 37 5 v 55
w(x509)p 786 2634 V 54 w(crq)p 1010 2634 V 54 w(prin)m(t)3350
2836 y FB([F)d(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_print)f
Fg(\()p Ff(gn)m(utls)p 1784 2836 28 4 v 41 w(x509)p 2008
2836 V 41 w(crq)p 2173 2836 V 40 w(t)31 b Fe(crq)12 b
Ff(,)565 2945 y(gn)m(utls)p 811 2945 V 41 w(cert\014cate)p
1239 2945 V 42 w(prin)m(t)p 1476 2945 V 39 w(format)p
1816 2945 V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(gn)m(utls)p
2543 2945 V 41 w(datum)p 2842 2945 V 39 w(t)f(*)g Fe(out)12
b Fg(\()390 3055 y Ff(crq)r FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)e
(prin)m(ted)390 3194 y Ff(format)r FB(:)41 b(Indicate)31
b(the)g(format)f(to)h(use)390 3333 y Ff(out)r FB(:)41
b(Newly)31 b(allo)s(cated)h(datum)e(with)g(zero)h(terminated)g(string.)

390 3473 y(This)f(function)g(will)g(prett)m(y)h(prin)m(t)f(a)h
 (certi\014cate)i(request,)d(suitable)h(for)f(displa)m(y)h(to)g(a)g(h)m
 (uman.)390 3612 y(The)f(output)g Fs(out)f FB(needs)h(to)h(b)s(e)f
 (deallo)s(cate)j(using)d Fs(gnutls_free\(\))p FB(.)390
 3752 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
 b(alue.)390 3891 y Fn(Since:)41 b FB(2.8.0)150 4095 y
 Fu(gn)m(utls)p 483 4095 37 5 v 55 w(x509)p 786 4095 V
 54 w(crq)p 1010 4095 V 54 w(set)p 1216 4095 V 54 w(attribute)p
 1750 4095 V 53 w(b)m(y)p 1933 4095 V 54 w(oid)3350 4297
 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_set_a)q(ttri)
 q(but)q(e_b)q(y_o)q(id)f Fg(\()p Ff(gn)m(utls)p 2569
 4297 28 4 v 40 w(x509)p 2792 4297 V 42 w(crq)p 2958 4297
 V 40 w(t)565 4406 y Fe(crq)12 b Ff(,)31 b(const)g(c)m(har)g(*)f
 Fe(oid)12 b Ff(,)31 b(v)m(oid)g(*)g Fe(buf)12 b Ff(,)31
 b(size)p 2170 4406 V 41 w(t)g Fe(sizeof_buf)12 b Fg(\()390
 4516 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f(gn)m(utls)p
 1513 4516 V 40 w(x509)p 1736 4516 V 41 w(crq)p 1901 4516
 V 40 w(t)g(structure)390 4655 y Ff(oid)t FB(:)40 b(holds)30
 b(an)h(Ob)5 b(ject)30 b(IDen)m(ti\014ed)g(in)g(n)m(ull)g(terminated)h
 (string)390 4795 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)
 g(structure)f(that)h(holds)f(the)g(attribute)h(data)390
 4934 y Ff(sizeof)p 610 4934 V 41 w(buf)17 b FB(:)40 b(holds)30
 b(the)h(size)g(of)f Fs(buf)390 5073 y FB(This)36 b(function)h(will)g
 (set)h(the)f(attribute)h(in)f(the)g(cert\014cate)i(request)e(sp)s
 (eci\014ed)g(b)m(y)g(the)g(giv)m(en)390 5183 y(Ob)5 b(ject)31
 b(ID.)f(The)g(attribute)h(m)m(ust)g(b)s(e)e(b)s(e)h(DER)h(enco)s(ded.)
 390 5322 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)
 16 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
 b(alue.)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(207)150 299 y
 Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
 w(crq)p 1010 299 V 54 w(set)p 1216 299 V 54 w(basic)p
 1535 299 V 54 w(constrain)m(ts)3350 494 y FB([F]-8 b(unction])-3599
 b Fh(int)53 b(gnutls_x509_crq_set_b)q(asic)q(_co)q(nst)q(rai)q(nts)f
 Fg(\()p Ff(gn)m(utls)p 2621 494 28 4 v 41 w(x509)p 2845
 494 V 41 w(crq)p 3010 494 V 40 w(t)565 603 y Fe(crq)12
 b Ff(,)31 b(unsigned)e(in)m(ti) Fe(ca)12 b Ff(,)31 b(in)m(t)g
 Fe(pathLenConstraint)12 b Fg(\()390 713 y Ff(crq)r FB(:)41
 b(a)31 b(cert\014cate)h(of)e(t)m(yp)s(e)h Fs(gnutls_x509_crq_t)390
 846 y Ff(ca)p FB(:)42 b(true\(\))31 b(or)f(false\(\)).43
 b(Dep)s(ending)30 b(on)g(the)g(Certi\014cate)i(authorit)m(y)f(status.)
 390 980 y Ff(pathLenConstrain)m(tr) FB(:)42 b(non-negativ)m(e)32
 b(v)-5 b(alues)31 b(indicate)h(maxim)m(um)f(length)g(of)g(path,)g(and)f
 (neg-)390 1089 y(ativ)m(e)i(v)-5 b(alues)31 b(indicate)g(that)g(the)g
 (pathLenConstrain)m(ts)f(\014eld)g(should)f(not)i(b)s(e)f(presen)m(t.)

390 1223 y(This)g(function)g(will)g(set)h(the)g(basicConstrain)m(ts)g
(certi\014cate)h(extension.)390 1356 y Fn>Returns:)k
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 1490 y Fn(Since:)41 b FB(2.8.0)150 1687 y
Fu(gn)m(utls)p 483 1687 37 5 v 55 w(x509)p 786 1687 V
54 w(crq)p 1010 1687 V 54 w(set)p 1216 1687 V 54 w(c)m(hallenge)p
1759 1687 V 54 w(passw)m(ord)3350 1882 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_x509_crq_set_c)q(hall)q(eng)q(e_p)q(ass)q(word)f
Fg(\()p Ff(gn)m(utls)p 2673 1882 28 4 v 41 w(x509)p 2897
1882 V 41 w(crq)p 3062 1882 V 40 w(t)565 1992 y Fe(crq)12
b Ff(,)31 b(const)g(c)m(har)g(*)f Fe(pass)12 b Fg(\()390
2101 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f(gn)m(utls)p
1513 2101 V 40 w(x509)p 1736 2101 V 41 w(crq)p 1901 2101
V 40 w(t)g(structure)390 2235 y Ff(pass)t FB(:)40 b(holds)30
b(a)h(n)m(ull)f(terminated)h(passw)m(ord)390 2368 y(This)f(function)g
(will)g(set)h(a)g(c)m(hallenge)h(passw)m(ord)e(to)h(b)s(e)f(used)g
(when)f(rev)m(oking)i(the)g(request.)390 2502 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2699 y Fu(gn)m(utls)p 483 2699 37 5 v 55
w(x509)p 786 2699 V 54 w(crq)p 1010 2699 V 54 w(set)p
1216 2699 V 54 w(dn)p 1406 2699 V 54 w(b)m(y)p 1590 2699
V 54 w(oid)3350 2894 y FB([F)d(unction])-3599 b Fh(int)53
b(gnutls_x509_crq_set_d)q(n_by)q(_oi)q(d)e Fg(\()p Ff(gn)m(utls)p
2202 2894 28 4 v 41 w(x509)p 2426 2894 V 42 w(crq)p 2592
2894 V 40 w(t)30 b Fe(crq)12 b Ff(,)31 b(const)565 3003
y(c)m(har)g(*)g Fe(oid)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(raw_flag)12 b Ff(,)32 b(const)f(v)m(oid)g(*)g Fe(data)12
b Ff(,)31 b(unsigned)f(in)m(t)565 3113 y Fe(sizeof_data)12
b Fg(\()390 3222 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f(gn)m
(utls)p 1513 3222 V 40 w(x509)p 1736 3222 V 41 w(crq)p
1901 3222 V 40 w(t)g(structure)390 3356 y Ff(oid)t FB(:)40
b(holds)30 b(an)h(Ob)5 b(ject)30 b(Ide)n)m(ti\014er)g(in)g(a)h(n)m(ull)f
(terminated)h(string)390 3489 y Ff(ra)m(w)p 540 3489
V 40 w(\015ag)8 b FB(:)41 b(m)m(ust)30 b(b)s(e)g(0,)h(or)f(1)h(if)g
(the)f(data)h(are)g(DER)f(enco)s(ded)390 3623 y Ff(data)p
FB(:)41 b(a)31 b(p)s(oin)m(ter)g(to)g(the)f(input)g(data)390
3756 y Ff(sizeof)p 610 3756 V 41 w(data)p FB(:)42 b(holds)29
b(the)i(size)g(of)g Fs(data)390 3890 y FB(This)24 b(function)h(will)h
(set)f(the)h(part)f(of)g(the)g(name)g(of)h(the)f(Certi\014cate)h
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y(b)m(y)j(the)h(giv)m(en)g(OID.)g(The)f(input)f(string)h(should)g(b)s
(e)f(ASCII)s(I)g(or)j(UTF-8)g(enco)s(ded.)390 4133 y(Some)42
b(help)s(er)f(macros)i(with)f(p)s(opular)f(OIDs)h(can)g(b)s(e)g(found)f
(in)g(gn)m(utls/x509.h)j(With)f(this)390 4243 y(function)g(y)m(ou)g
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b(ou)44 b(can)f(test)h(for)e(kno)m(w)n)h(OIDs)f(using)390

4352 y Fs(gnutls_x509_dn_oid_known)o(\())p FB(.33 b(F)-8
b(or)26 b(OIDs)g(that)g(are)g(not)g(kno)m(wn)f(\(b)m(y)h(gn)m(utls))g
(y)m(ou)g(should)390 4462 y(prop)s(erly)j(DER)i(enco)s(de)f(y)m(our)h
(data,)g(and)f(call)h(this)g(function)f(with)g(ra)m(w)p
2957 4462 V 40 w(\015ag)h(set.)390 4595 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 4793 y Fu(gn)m(utls)p 483 4793 37 5 v 55
w(x509)p 786 4793 V 54 w(crq)p 1010 4793 V 54 w(set)p
1216 4793 V 54 w(k)m(ey)p 1453 4793 V 53 w(purp)s(ose)p
1928 4793 V 56 w(oid)3350 4987 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_crq_set_k)q(ey_p)q(urp)q(ose)q(_oi)q(d)e
Fg(\()p Ff(gn)m(utls)p 2516 4987 28 4 v 41 w(x509)p 2740
4987 V 41 w(crq)p 2905 4987 V 40 w(t)565 5097 y Fe(cert)12
b Ff(.)31 b(const)g(v)m(oid)g(*)g Fe(oid)12 b Ff(.)31
b(unsigned)e(in)m(t)i Fe(critical)12 b Fg(\())390 5206
y Ff(cert)r FB(:)41 b(a)31 b(cert)014cate)i(of)d(t)m(yp)s(e)h
Fs(gnutls_x509_crq_t)390 5340 y Ff(oid)t FB(:)40 b(a)31
b(p)s(oin)m(ter)g(to)g(a)f(n)m(ull)h(terminated)g(string)f(that)h
(holds)f(the)g(OID)p eop end
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2929 570 28 4 v 39 w(KP)p 3101 570 V 40 w(*)g(de)014nitions)f(for)390
679 y(h)m(uman)30 b(readable)g(names.)390 840 y(Subsequen)m(t)f(calls)j
(to)f(this)f(function)g(will)h(app)s(end)e(OIDs)h(to)h(the)g(OID)f
(list.)390 1002 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)390 1163 y Fn(Since:)41
b FB(2.8.0)150 1389 y Fu(gn)m(utls)p 483 1389 37 5 v
55 w(x509)p 786 1389 V 54 w(crq)p 1010 1389 V 54 w(set)p
1216 1389 V 54 w(k)m(ey)p 1453 1389 V 53 w(rsa)p 1664
1389 V 54 w(ra)m(w)3350 1612 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crq_set_k)q(ey_r)q(sa_)q(raw)f
Fg(\()p Ff(gn)m(utls)p 2307 1612 28 4 v 41 w(x509)p 2531
1612 V 41 w(crq)p 2696 1612 V 40 w(t)31 b Fe(crq)12 b
Ff.)565 1722 y(const)31 b(gn)m(utls)p 1049 1722 V 40
w(datum)p 1347 1722 V 40 w(t)g(*)f Fe(m)12 b Ff(.)31
b(const)g(gn)m(utls)p 2126 1722 V 40 w(datum)p 2424 1722
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390 2154 y Ff(e)5 b FB(:)41 b(holds)30 b(the)h(public)e(exp)s(onen)m(t)

390 2315 y(This)24 b(function)h(will)g(set)h(the)f(public)f(parameters)
i(from)e(the)h(giv)m(en)h(priv)-5 b(ate)26 b(k)m(ey)g(to)f(the)h
(request.)390 2425 y(Only)k(RSA)g(k)m(ey)h(are)f(curren)m(tly)h(supp)s
(orted.)390 2586 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)390 2747 y Fn(Since:)41
b FB(2.6.0)150 2973 y Fu(gn)m(utls)p 483 2973 37 5 v
55 w(x509)p 786 2973 V 54 w(crq)p 1010 2973 V 54 w(set)p
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3197 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_set_k)q
(ey_u)q(sag)q(e)e Fg(\()p Ff(gn)m(utls)p 2202 3197 28
4 v 41 w(x509)p 2426 3197 V 42 w(crq)p 2592 3197 V 40
w(t)30 b Fe(crq)12 b Ff(,)565 3306 y(unsigned)29 b(in)m(t)i
Fe(usage)12 b Fg(\()390 3416 y Ff(crq)r FB(:)41 b(a)31
b(cert)014cate)h(of)e(t)m(yp)s(e)h Fs(gnutls_x509_crq_t)390
3577 y Ff(usage)5 b FB(:)41 b(an)31 b(ORed)f(sequence)g(of)h(the)f
(GNUTLS)p 2087 3577 V 40 w(KEY)p 2328 3577 V 40 w(*)h(elemen)m(ts.)390
3738 y(This)f(function)g(will)g(set)h(the)g(k)m(ey)Usage)h
(cert)014cate)h(extension.)390 3899 y Fn>Returns:)j
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 4060 y Fn(Since:)41 b FB(2.8.0)150 4286 y
Fu(gn)m(utls)p 483 4286 37 5 v 55 w(x509)p 786 4286 V
54 w(crq)p 1010 4286 V 54 w(set)p 1216 4286 V 54 w(k)m(ey)3350
4510 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_set_k)q
(ey)f Fg(\()p Ff(gn)m(utls)p 1889 4510 28 4 v 40 w(x509)p
2112 4510 V 42 w(crq)p 2278 4510 V 40 w(t)30 b Fe(crq)12
b Ff(,)565 4620 y(gn)m(utls)p 811 4620 V 41 w(x509)p
1035 4620 V 41 w(privk)m(ey)p 1369 4620 V 40 w(t)31 b
Fe(key)12 b Fg(\()390 4729 y Ff(crq)r FB(:)41 b(should)29
b(con)m(tain)j(a)f(gn)m(utls)p 1513 4729 V 40 w(x509)p
1736 4729 V 41 w(crq)p 1901 4729 V 40 w(t)g(structure)390
4890 y Ff(k)m(ey)8 b FB(:)41 b(holds)30 b(a)h(priv)-5
b(ate)31 b(k)m(ey)390 5052 y(This)24 b(function)h(will)g(set)h(the)f
(public)f(parameters)i(from)e(the)h(giv)m(en)h(priv)-5
b(ate)26 b(k)m(ey)g(to)f(the)h(request.)390 5161 y(Only)k(RSA)g(k)m
(ey)h(are)f(curren)m(tly)h(supp)s(orted.)390 5322 y
Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(209)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crq)p 1010 299 V 54 w(set)p 1216 299 V 54 w(sub)7 b(ject)p
1657 299 V 54 w(alt)p 1853 299 V 54 w(name)3350 499 y
FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_set_s)q(ubje)q
(ct_)q(alt)q(_na)q(me)f Fg(\()p Ff(gn)m(utls)p 2569 499

28 4 v 40 w(x509)p 2792 499 V 42 w(crq)p 2958 499 V 40
w(t)565 608 y Fe(crq)12 b Ff(,)31 b(gn)m(utls)p 1035
608 V 41 w(x509)p 1259 608 V 41 w(sub)5 b(ject)p 1586
608 V 40 w(alt)p 1731 608 V 41 w(name)p 1984 608 V 40
w(t)31 b Fe(nt)12 b Ff(,)30 b(const)h(v)m(oid)g(*)g Fe(data)12
b Ff(,)31 b(unsigned)e(in)m(t)565 718 y Fe(data_size)12
b Ff(,)33 b(unsigned)c(in)m(t)i Fe(flags)12 b Fg(\))390
827 y Ff(crq)r FB(:)41 b(a)31 b(cert\014cate)h(of)e(t)m(yp)s(e)h
Fs(gnutls_x509_crq_t)390 965 y Ff(n)m(tr FB(:)41 b(is)30
b(one)h(of)g(the)f Fs(gnutls_x509_subject_alt_n)o(ame)o(_t)24
b FB(en)m(umerations)390 1102 y Ff(data)p FB(:)41 b(The)30
b(data)h(to)g(b)s(e)f(set)390 1240 y Ff(data)p 572 1240
V 41 w(size)5 b FB(:)41 b(The)30 b(size)i(of)e(data)h(to)g(b)s(e)f(set)
390 1377 y Ff(\015ags)t FB(:)41 b Fs(GNUTLS_FSAN_SET)26
b FB(to)31 b(clear)g(previous)f(data)h(or)g Fs(GNUTLS_FSAN_APPEND)25
b FB(to)31 b(app)s(end.)390 1515 y(This)k(function)h(will)g(set)h(the)f
(sub)5 b(ject)36 b(alternativ)m(e)i(name)e(cert\014cate)j(extension.)
58 b(It)36 b(can)g(set)390 1625 y(the)31 b(follo)m(wing)g(t)m(yp)s(es):
390 1762 y(&GNUTLS)p 848 1762 V 39 w(SAN)p 1074 1762
V 40 w(DNSNAME:h(as)e(a)h(text)g(string)390 1900 y(&GNUTLS)p
848 1900 V 39 w(SAN)p 1074 1900 V 40 w(RF)m(C822NAME:)i(as)e(a)g(text)g
(string)390 2037 y(&GNUTLS)p 848 2037 V 39 w(SAN)p 1074
2037 V 40 w(URI:)g(as)f(a)h(text)h(string)390 2175 y(&GNUTLS)p
848 2175 V 39 w(SAN)p 1074 2175 V 40 w(IP)-8 b(ADDRESS:)31
b(as)f(a)h(binary)f(IP)g(address)f(\(4)i(or)g(16)g(b)m(ytes\))390
2312 y(Other)f(v)-5 b(alues)31 b(can)f(b)s(e)g(set)h(as)g(binary)e(v)-5
b(alues)31 b(with)f(the)g(prop)s(er)f(DER)i(enco)s(ding.)390
2450 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 2587 y Fn(Since:)41 b FB(2.8.0)150 2789 y
Fu(gn)m(utls)p 483 2789 37 5 v 55 w(x509)p 786 2789 V
54 w(crq)p 1010 2789 V 54 w(set)p 1216 2789 V 54 w(v)m(ersion)3350
2989 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crq_set_v)q
(ersi)q(on)f Fg(\()p Ff(gn)m(utls)p 2098 2989 28 4 v
41 w(x509)p 2322 2989 V 41 w(crq)p 2487 2989 V 40 w(t)31
b Fe(crq)12 b Ff(,)31 b(unsigned)565 3099 y(in)m(t)g
Fe(version)12 b Fg(\))390 3208 y Ff(crq)r FB(:)41 b(should)29
b(con)m(tain)j(a)f(gn)m(utls)p 1513 3208 V 40 w(x509)p
1736 3208 V 41 w(crq)p 1901 3208 V 40 w(t)g(structure)390
3346 y Ff(v)m(ersion)p FB(:)41 b(holds)30 b(the)h(v)m(ersion)f(n)m(um)m
(b)s(er.)40 b(F)-8 b(or)31 b(v1)g(Requests)f(m)m(ust)h(b)s(e)e(1.)390
3483 y(This)c(function)g(will)i(set)f(the)g(v)m(ersion)g(of)g(the)g
(cert\014cate)i(request.)39 b(F)-8 b(or)27 b(v)m(ersion)f(1)g
(requests)g(this)390 3593 y(m)m(ust)k(b)s(e)g(one.)390
3730 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3933 y Fu(gn)m(utls)p 483 3933 37 5 v 55
w(x509)p 786 3933 V 54 w(crq)p 1010 3933 V 54 w(sign2)3350

4132 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_crq_sign2)f
Fg(\()p Ff(gn)m(utls)p 1784 4132 28 4 v 41 w(x509)p 2008
4132 V 41 w(crq)p 2173 4132 V 40 w(t)31 b Fe(crq)12 b
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b Ff(,)31 b(gn)m(utls)p 1939 4242 V 40 w(digest)p 2211
4242 V 41 w(algorithm)p 2635 4242 V 41 w(t)g Fe(dig)12
b Ff(,)31 b(unsigned)e(in)m(t)565 4352 y Fe(flags)12
b Fg(\))390 4461 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f
Fs(gnutls_x509_crq_t)25 b FB(structure)390 4599 y Ff(k)m(ey)8
b FB(:)41 b(holds)30 b(a)h(priv)-5 b(ate)31 b(k)m(ey)390
4736 y Ff(dig)8 b FB(:)40 b(The)28 b(message)i(digest)g(to)f(use,)g
Fs(GNUTLS_DIG_SHA1)c FB(is)k(the)g(safe)g(c)m(choic)i(unless)d(y)m(ou)h
(kno)m(w)390 4846 y(what)h(y)m(ou're)h(doing.)390 4983
y Ff(\015ags)t FB(:)41 b(m)m(ust)30 b(b)s(e)g(0)390 5121
y(This)35 b(function)g(will)h(sign)f(the)h(cert\014cate)h(request)f
(with)f(a)h(priv)-5 b(ate)36 b(k)m(ey)-8 b(.)57 b(This)35
b(m)m(ust)g(b)s(e)g(the)390 5230 y(same)30 b(k)m(ey)g(as)g(the)g(one)g
(used)f(in)g Fs(gnutls_x509 crt_set_key\(\))23 b FB(since)30
b(a)g(cert\014cate)i(request)390 5340 y(is)e(self)h(signed.)p
eop end
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b(m)m(ust)h(b)s(e)g(the)g(last)h(step)f(in)g(a)g(cert\014cate)i
(request)e(generation)i(since)e(all)h(the)f(previously)390
408 y(set)g(parameters)g(are)f(no)m(w)h(signed.)390 547
y Fn>Returns:)38 b Fs(GNUTLS_E_SUCCESS)21 b FB(on)k(success,)i
(otherwise)f(an)g(error.)38 b Fs(GNUTLS_E_ASN1_VALUE_)390
657 y(NOT_FOUND)25 b FB(is)i(returned)f(if)i(y)m(ou)f(didn't)g(set)h
(all)g(information)g(in)f(the)g(cert\014cate)j(request)d\(\(e.g.,)390
767 y(the)k(v)m(ersion)f(using)g Fs(gnutls_x509_crq_set_versi)o(on\(\))
o FB(\).)150 970 y Fu(gn)m(utls)p 483 970 37 5 v 55 w(x509)p
786 970 V 54 w(crq)p 1010 970 V 54 w(sign)3350 1172 y
FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crq_sign)f
Fg(\()p Ff(gn)m(utls)p 1732 1172 28 4 v 40 w(x509)p 1955
1172 V 42 w(crq)p 2121 1172 V 40 w(t)30 b Fe(crq)12 b
Ff(,)565 1281 y(gn)m(utls)p 811 1281 V 41 w(x509)p 1035
1281 V 41 w(privk)m(ey)p 1369 1281 V 40 w(t)31 b Fe(key)12
b Fg(\))390 1391 y Ff(crq)r FB(:)41 b(should)29 b(con)m(tain)j(a)f(gn)m
(utls)p 1513 1391 V 40 w(x509)p 1736 1391 V 41 w(crq)p
1901 1391 V 40 w(t)g(structure)390 1530 y Ff(k)m(ey)8
b FB(:)41 b(holds)30 b(a)h(priv)-5 b(ate)31 b(k)m(ey)390
1669 y(This)h(function)h(is)f(the)h(same)h(a)f Fs
(gnutls_x509_crq_sign2\(\))26 b FB(with)33 b(no)g(\015ags,)g(and)g
(SHA1)g(as)390 1778 y(the)e(hash)e(algorithm.)390 1917
y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5

b(alue.)150 2121 y Fu(gn)m(utls)p 483 2121 37 5 v 55
w(x509)p 786 2121 V 54 w(cert)p 993 2121 V 54 w(c)m(hec)m(k)p
1340 2121 V 52 w(hostname)3350 2322 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_x509_cert_check)q(_hos)q(tna)q(me)f
Fg(\()p Ff(gn)m(utls)p 2255 2322 28 4 v 41 w(x509)p 2479
2322 V 41 w(cert)p 2631 2322 V 40 w(t)31 b Fe(cert)12
b Ff(,)565 2432 y(const)31 b(c)m(har)g(*)f Fe(hostname)12
b Fg(\)390 2541 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(an)g
(gn)m(utls)p 1591 2541 V 40 w(x509)p 1814 2541 V 42 w(cert)p
1967 2541 V 40 w(t)g(structure)390 2680 y Ff(hostname)5
b FB(:)41 b(A)31 b(n)m(ull)f(terminated)h(string)f(that)h(con)m(tains)h
(a)e(DNS)h(name)390 2819 y(This)26 b(function)g(will)h(c)m(hec)m(k)i
(if)d(the)h(giv)m(en)h(cert)014cate's)h(sub)5 b(ject)26
b(matc)m(hes)i(the)f(giv)m(en)g(hostname.)390 2929 y(This)42
b(is)g(a)h(basic)g(implemen)m(tation)i(of)d(the)h(matc)m(hing)h
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(the)g(DNSName/IP)-8 b(Address)25 b(sub)5 b(ject)24 b(alternativ)m(e)
390 3148 y(name)30 b(PKIX)g(extension.)390 3287 y Fn>Returns:)40
b FB(non)30 b(zero)h(for)f(a)h(successful)f(matc)m(h,)i(and)e(zero)h
(on)f(failure.)150 3491 y Fu(gn)m(utls)p 483 3491 37
5 v 55 w(x509)p 786 3491 V 54 w(cert)p 993 3491 V 54 w(c)m(hec)m(k)p
1340 3491 V 52 w(issuer)3350 3692 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_x509_cert_check)q(_iss)q(uer)f Fg(\()p
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b(the)h(cert)014cate)h(of)f(a)f(p)s(ossible)g(issuer)390
4189 y(This)g(function)g(will)g(c)m(hec)m(k)i(if)f(the)f(giv)m(en)i
(cert)014cate)g(w)m(as)f(issued)e(b)m(y)i(the)f(giv)m(en)i(issuer.)390
4328 y Fn>Returns:)48 b FB(It)34 b(will)g(return)f(true)h(\(1\))h(if)f
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e(an)g(error.)150 4642 y Fu(gn)m(utls)p 483 4642 37 5
v 55 w(x509)p 786 4642 V 54 w(cert)p 993 4642 V 54 w(c)m(hec)m(k)p
1340 4642 V 52 w(rev)m(o)s(cation)3350 4843 y FB([F]-8
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12 b Fg(\)390 5062 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
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1676 853 V 54 w(p)s(oin)m(ts)3350 1051 y FB([F]-8 b(unction))-3599
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(ull))390 1218 y(This)38 b(function)g(will)h(return)e(the)i(X.509v3)i
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(ull))390 1749 y(This)37 b(function)g(will)h(return)f(the)h(CRL)f
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b(in)f(the)390 1858 y(giv)m(en)31 b(cert)014cate.)390
1994 y Fs(reason_flags)26 b FB(should)i(b)s(e)g(an)h(ORed)g(sequence)h
(of)f(GNUTLS)p 2649 1994 V 40 w(CRL)p 2879 1994 V 39
w(REASON)p 3305 1994 V 39 w(UNUSED,)390 2104 y(GNUTLS)p
777 2104 V 40 w(CRL)p 1007 2104 V 39 w(REASON)p 1433
2104 V 39 w(KEY)p 1673 2104 V 40 w(COMPR)m(OMISE,)20
b(GNUTLS)p 2785 2104 V 40 w(CRL)p 3015 2104 V 39 w(REASON)p
3441 2104 V 39 w(CA)p 3614 2104 V 40 w(COMPR)m(OMISE,)390
2213 y(GNUTLS)p 777 2213 V 40 w(CRL)p 1007 2213 V 39
w(REASON)p 1433 2213 V 39 w(AFFILIA)-8 b(TION)p 2079
2213 V 41 w(CHANGED,)21 b(GNUTLS)p 3019 2213 V 40 w(CRL)p
3249 2213 V 39 w(REASON)p 3675 2213 V 40 w(SUPERSEDED,)390
2323 y(GNUTLS)p 777 2323 V 40 w(CRL)p 1007 2323 V 39
w(REASON)p 1433 2323 V 39 w(CESSA)-8 b(TION)p 2000 2323
V 39 w(OF)p 2169 2323 V 40 w(OPERA)g(TION,)20 b(GNUTLS)p
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2323 V 39 w(CER)-8 b(TIFICA)g(TE)p 4522 2323 V 40 w(HOLD,)390
2432 y(GNUTLS)p 777 2432 V 40 w(CRL)p 1007 2432 V 39
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2432 V 40 w(COMPR)m(OMISE,)390 2542 y(or)30 b(zero)i(for)e(all)h(p)s
(ossible)f(reasons.)390 2677 y(This)35 b(is)g(sp)s(eci)014ed)g(in)g
(X509v3)i(Cert)014cate)g(Extensions.)55 b(GNUTLS)35
b(will)h(return)e(the)i(distri-)390 2787 y(bution)30
b(p)s(oin)m(t)g(t)m(y)p)s(e,)h(or)f(a)h(negativ)m(e)i(error)d(co)s(de)g
(on)h(error.)390 2923 y Fn>Returns:)60 b Fs(GNUTLS_E_SHORT_MEMORY_BU)o
(FFE)o(R)34 b FB(and)40 b(up)s(dates)f(&)p Fs(ret_size)e
FB(if)j(&)p Fs(ret_size)390 3032 y FB(is)g(not)f(enough)h(to)g(hold)f
(the)h(distribution)f(p)s(oin)m(t,)j(or)d(the)h(t)m(y)p)s(e)g(of)f(the)h
(distribution)f(p)s(oin)m(t)390 3142 y(if)i(ev)m(erything)h(w)m(as)f
(ok.)73 b(The)41 b(t)m(y)p)s(e)g(is)g(one)h(of)f(the)g(en)m(umerated)g
Fs(gnutls_x509_subject_)390 3251 y(alt_name_t)p FB(.)j(If)32
b(the)g(cert)014cate)j(do)s(es)d(not)g(ha)m(m)v)m(e)i(an)e(Alternativ)m
(e)j(name)d(with)g(the)h(sp)s(eci)014ed)390 3361 y(sequence)e(n)m(um)m
(b)s(er)e(then)h Fs(GNUTLS_E_REQUESTED_DATA_)o(NOT_)o(AVA)o(ILAB)o(LE)
24 b FB(is)31 b(returned.)150 3561 y Fu(gn)m(utls)p 483
3561 37 5 v 55 w(x509)p 786 3561 V 54 w(crt)p 993 3561

V 54 w(get)p 1212 3561 V 54 w(dn)p 1402 3561 V 54 w(b)m(y)p
1586 3561 V 54 w(oid)3350 3759 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_get_d)q(n_by)q(_oi)q(d)e
Fg(\()p Ff(gn)m(utls)p 2202 3759 28 4 v 41 w(x509)p 2426
3759 V 42 w(crt)p 2579 3759 V 40 w(t)31 b Fe(cert)12
b Ff(,)31 b(const)565 3869 y(c)m(har)g(*)g Fe(oid)12
b Ff(,)31 b(in)m(t)g Fe(indx)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(raw_flag)12 b Ff(,)32 b(v)m(oid)f(*)g Fe(buf)12 b
Ff(,)31 b(size)p 3127 3869 V 41 w(t)g(*)565 3978 y Fe(sizeof_buf)12
b Fg(\)390 4088 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_crt_t)26 b FB(structure)390 4224 y Ff(oid)t
FB(:)40 b(holds)30 b(an)h(Ob)5 b(ject)30 b(Ide)n)m(ti\014ed)g(in)g(n)m
(ull)g(terminated)h(string)390 4359 y Ff(indx)6 b FB(:)39
b(In)26 b(case)j(m)m(ultiple)f(same)g(OIDs)f(exist)h(in)f(the)h(RDN,)g
(this)f(sp)s(eci\014es)g(whic)m(h)g(to)i(send.)39 b(Use)390
4469 y(zero)31 b(to)g(get)h(the)e(\014rst)g(one.)390
4604 y Ff(ra)m(w)p 540 4604 V 40 w(\015ag)8 b FB(:)41
b(lf)30 b(non)g(zero)h(returns)e(the)i(ra)m(w)f(DER)h(data)g(of)f(the)h
(DN)g(part.)390 4740 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f
(where)g(the)h(DN)g(part)f(will)g(b)s(e)g(copied)h(\(ma)m(y)g(b)s(e)f
(n)m(ull).)390 4876 y Ff(sizeof)p 610 4876 V 41 w(buf)17
b FB(:)40 b(initially)32 b(holds)e(the)g(size)i(of)e
Fs(buf)390 5011 y FB(This)e(function)g(will)h(extract)h(the)e(part)h
(of)f(the)h(name)g(of)f(the)h(Certi\014cate)h(sub)5 b(ject)28
b(sp)s(eci\014ed)g(b)m(y)390 5121 y(the)k(giv)m(en)h(OID.)f(The)f
(output,)j(i)f(f(the)g(ra)m(w)g(\015ag)g(is)g(not)g(used,)g(will)g(b)s
(e)f(enco)s(ded)h(as)g(describ)s(ed)390 5230 y(in)44
b(RF)m(C2253.)83 b(Th)m(us)43 b(a)h(string)g(that)g(is)g(ASCII)s(I)e(or)
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5340 y(cert\014cate)32 b(data.)p eop end
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b(help)s(er)f(macros)i(with)f(p)s(opular)f(OIDs)h(can)g(b)s(e)g(found)f
(in)g(gn)m(utls/x509.h)j(I)fe(ra)m(w)g(\015ag)h(is)390
408 y(zero,)39 b(this)e(function)f(will)h(only)f(return)g(kno)m(w)n)g
(OIDs)g(as)h(text.)61 b(Other)36 b(OIDs)g(will)h(b)s(e)f(DER)390
518 y(enco)s(ded,)29 b(as)f(describ)s(ed)f(in)h(RF)m(C2253)i({}f(in)f
(hex)g(format)h(with)e(a)i(')p Fs(\)p FB(#')f(pre\014x.)39
b(Y)-8 b(ou)29 b(can)f(c)m(hec)m(k)390 628 y(ab)s(out)i(kno)m(w)n)g
(OIDs)g(using)g Fs(gnutls_x509_dn_oid_known)o(\)p
FB(.)390 756 y(I)fg Fs(buf)f FB(is)i(n)m(ull)f(then)g(only)h(the)f
(size)h(will)g(b)s(e)f(\014lled.)390 885 y Fn>Returns:)71
b FB(GNUTLS)p 1196 885 28 4 v 39 w(E)p 1297 885 V 40
w(SHOR)-8 b(T)p 1652 885 V 39 w(MEMOR)g(Y)p 2117 885
V 41 w(BUFFER)47 b(i)f(e(the)h(pro)m(vided)f(bu\013er)f(is)i(not)390
994 y(long)31 b(enough,)f(and)g(in)f(that)i(case)g(the)g(*sizeof)p
2018 994 V 41 w(buf)e(will)i(b)s(e)e(up)s(dated)g(with)h(the)g

(required)g(size.)390 1104 y(On)g(success)g(0)h(is)f(returned.)150
1291 y Fu(gn)m(utls)p 483 1291 37 5 v 55 w(x509)p 786
1291 V 54 w(crt)p 993 1291 V 54 w(get)p 1212 1291 V 54
w(dn)p 1402 1291 V 54 w(oid)3350 1476 y FB([F]-8 b(unction)]-3599
b Fh(int)53 b(gnutls_x509_crt_get_d)q(n_oi)q(d)f Fg(\()p
Ff(gn)m(utls)p 2046 1476 28 4 v 40 w(x509)p 2269 1476
V 42 w(crt)p 2422 1476 V 40 w(t)31 b Fe(cert)12 b Ff(,)31
b(in)m(t)g Fe(indx)12 b Ff(,)565 1586 y(v)m(oid)31 b(*)g
Fe(oid)12 b Ff(,)31 b(size)p 1209 1586 V 41 w(t)f(*)h
Fe(size_of_oid)12 b Fg(\)390 1696 y Ff(cert)r FB(:)41
b(should)30 b(con)m(tain)h(a)g Fs(gnutls_x509_crt_t)26
b FB(structure)390 1824 y Ff(indx)6 b FB(:)40 b(This)30
b(sp)s(eci\014es)g(whic)m(h)g(OID)g(to)h(return.)40 b(Use)31
b(zero)g(to)g(get)g(the)g(\014rst)f(one.)390 1953 y Ff(oid)t
FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(bu\013er)g(to)h(hold)f(the)h
(OID)f(\(ma)m(y)h(b)s(e)f(n)m(ull))390 2081 y Ff(sizeof)p
610 2081 V 41 w(oid)t FB(:)41 b(initially)31 b(holds)f(the)h(size)g(of)
g Fs(oid)390 2210 y FB(This)j(function)h(will)g(extract)h(the)f(OIDs)g
(of)g(the)g(name)g(of)g(the)g(Certi\014cate)h(sub)5 b(ject)35
b(sp)s(eci\014ed)390 2319 y(b)m(y)30 b(the)h(giv)m(en)g(index.)390
2448 y(If)f(oid)g(is)h(n)m(ull)f(then)g(only)h(the)f(size)h(will)g(b)s
(e)f(\014lled.)390 2577 y Fn>Returns:)71 b FB(GNUTLS)p
1196 2577 V 39 w(E)p 1297 2577 V 40 w(SHOR)-8 b(T)p 1652
2577 V 39 w(MEMOR)g(Y)p 2117 2577 V 41 w(BUFFER)47 b(if)e(the)h(pro)m
(vided)f(bu\013er)f(is)i(not)390 2686 y(long)31 b(enough,)g(and)f(in)h
(that)g(case)h(the)f(*sizeof)p 2022 2686 V 41 w(oid)g(will)g(b)s(e)f
(up)s(dated)g(with)g(the)h(required)f(size.)390 2796
y(On)g(success)g(0)h(is)f(returned.)150 2983 y Fu(gn)m(utls)p
483 2983 37 5 v 55 w(x509)p 786 2983 V 54 w(crt)p 993
2983 V 54 w(get)p 1212 2983 V 54 w(dn)3350 3168 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_x509_crt_get_d)q(n)e
Fg(\()p Ff(gn)m(utls)p 1836 3168 28 4 v 41 w(x509)p 2060
3168 V 41 w(crt)p 2212 3168 V 41 w(t)30 b Fe(cert)12
b Ff(,)32 b(c)m(har)f(*)f Fe(buf)12 b Ff(,)565 3278 y(size)p
712 3278 V 41 w(t)31 b(*)f Fe(sizeof_buf)12 b Fg(\)390
3387 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_crt_t)26 b FB(structure)390 3516 y Ff(buf)16
b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h(hold)f
(the)h(name)f(\(ma)m(y)h(b)s(e)f(n)m(ull))390 3644 y
Ff(sizeof)p 610 3644 V 41 w(buf)17 b FB(:)40 b(initially)32
b(holds)e(the)g(size)i(of)e Fs(buf)390 3773 y FB(This)e(function)g
(will)h(cop)m(y)h(the)f(name)f(of)h(the)g(Certi\014cate)h(in)e(the)h
(pro)m(vided)g(bu\013er.)39 b(The)28 b(name)390 3883
y(will)45 b(b)s(e)g(in)g(the)g(form)g Fs("")p FB(C=xxxx,O=yyyy)-8
b(CN=zzzz)p Fs("")45 b FB(as)g(describ)s(ed)f(in)h(RF)m(C2253.)87
b(The)390 3992 y(output)30 b(string)g(will)h(b)s(e)f(ASCII)s(I)f(or)h
(UTF-8)h(enco)s(ded,)f(dep)s(ending)f(on)i(the)f(certi\014cate)j(data.)
390 4121 y(If)d Fs(buf)f FB(is)i(n)m(ull)f(then)g(only)h(the)f(size)h

(will)g(b)s(e)f(014lled.)390 4249 y Fn>Returns:)71 b
FB(GNUTLS)p 1196 4249 V 39 w(E)p 1297 4249 V 40 w(SHOR)-8
b(T)p 1652 4249 V 39 w(MEMOR)g(Y)p 2117 4249 V 41 w(BUFFER)47
b(if)e(the)h(pro)m(vided)f(bu013er)f(is)i(not)390 4359
y(long)31 b(enough,)f(and)g(in)f(that)i(case)g(the)g(*sizeof)p
2018 4359 V 41 w(buf)e(will)i(b)s(e)e(up)s(dated)g(with)h(the)g
(required)g(size.)390 4469 y(On)g(success)g(0)h(is)f(returned.)150
4656 y Fu(gn)m(utls)p 483 4656 37 5 v 55 w(x509)p 786
4656 V 54 w(crt)p 993 4656 V 54 w(get)p 1212 4656 V 54
w(expiration)p 1810 4656 V 54 w(time)3350 4841 y FB([F]-8
b(unction])-3599 b Fh(time_t)54 b(gnutls_x509_crt_get_ex)q(pir)q(ati)q
(on_)q(time)e Fg(\()p Ff(gn)m(utls)p 2673 4841 28 4 v
41 w(x509)p 2897 4841 V 41 w(crt)p 3049 4841 V 41 w(t)565
4950 y Fe(cert)12 b Fg(\()390 5060 y Ff(cert)r FB(:)41
b(should)30 b(con)m(tain)h(a)g Fs(gnutls_x509_crt_t)26
b FB(structure)390 5189 y(This)k(function)g(will)g(return)g(the)g(time)
h(this)g(Certi014cate)g(w)m(as)g(or)f(will)h(b)s(e)f(expired.)390
5317 y Fn>Returns:)40 b FB(expiration)31 b(time,)h(or)e(\(time)p
1771 5317 V 41 w(t)-1)i(on)e(error.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(215)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crt)p 993 299 V 54 w(get)p 1212 299 V 54 w(extension)p
1770 299 V 55 w(b)m(y)p 1955 299 V 53 w(oid)3350 496
y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_crt_get_e)q(xten)
q(sio)q(n_b)q(y_o)q(id)f Fg(\()p Ff(gn)m(utls)p 2569
496 28 4 v 40 w(x509)p 2792 496 V 42 w(crt)p 2945 496
V 40 w(t)565 606 y Fe(cert)12 b Ff(,)31 b(const)g(c)m(har)f(*)h
Fe(oid)12 b Ff(,)31 b(in)m(t)f Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(buf)12 b Ff(,)30 b(size)p 2635 606 V 41 w(t)h(*)f
Fe(sizeof_buf)12 b Ff(,)33 b(unsigned)565 715 y(in)m(t)e(*)g
Fe(critical)12 b Fg(\()390 825 y Ff(cert)r FB(:)41 b(should)30
b(con)m(tain)h(a)g Fs(gnutls_x509_crt_t)26 b FB(structure)390
960 y Ff(oid)t FB(:)40 b(holds)30 b(an)h(Ob)5 b(ject)30
b(Iden)m(ti014ed)g(in)g(n)m(ull)g(terminated)h(string)390
1095 y Ff(indx)6 b FB(:)38 b(In)25 b(case)i(m)m(ultiple)g(same)f(OIDs)g
(exist)g(in)g(the)g(extensions,)i(this)e(sp)s(eci014es)f(whic)m(h)h
(to)g(send.)390 1205 y(Use)31 b(zero)g(to)g(get)h(the)e(014rst)g(one.)
390 1340 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g
(structure)f(to)h(hold)f(the)h(name)f(\(ma)m(y)h(b)s(e)f(n)m(ull\))390
1475 y Ff(sizeof)p 610 1475 V 41 w(buf)17 b FB(:)40 b(initially)32
b(holds)e(the)g(size)i(of)e Fs(buf)390 1610 y Ff(critical)t
FB(:)42 b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h(extension)g(is)f
(mark)m(ed)g(as)h(critical)390 1745 y(This)j(function)g(will)h(return)e
(the)i(extension)g(sp)s(eci014ed)e(b)m(y)i(the)f(OID)h(in)f(the)g
(certi014cate.)55 b(The)390 1855 y(extensions)31 b(will)g(b)s(e)e
(returned)h(as)g(binary)g(data)h(DER)f(enco)s(ded,)h(in)f(the)g(pro)m

(vided)g(bu\013er.)390 1990 y Fn>Returns:82 b FB(On)50
b(success,)57 b Fs(GNUTLS_E_SUCCESS)47 b FB(\(zero\))53
b(is)e(returned,)56 b(otherwise)51 b(an)g(error)390 2099
y(co)s(de)62 b(is)f(returned.)133 b(If)61 b(the)h(cert)\014cate)i(do)s
(es)d(not)h(con)m(tain)h(the)e(sp)s(eci\014ed)g(extension)390
2209 y(GNUTLS)p 777 2209 V 40 w(E)p 879 2209 V 40 w(REQUESTED)p
1497 2209 V 39 w(D)m(A)-8 b(T)g(A)p 1788 2209 V 41 w(NOT)p
2034 2209 V 40 w(A)e(V)g(AILABLE)30 b(will)h(b)s(e)f(returned.)150
2409 y Fu(gn)m(utls)p 483 2409 37 5 v 55 w(x509)p 786
2409 V 54 w(cert)p 993 2409 V 54 w(get)p 1212 2409 V 54
w(extension)p 1770 2409 V 55 w(data)3350 2606 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_x509_cert_get_e)q(xten)q(sio)q
(n_d)q(ata)f Fg(\()p Ff(gn)m(utls)p 2464 2606 28 4 v
41 w(x509)p 2688 2606 V 41 w(cert)p 2840 2606 V 40 w(t)31
b Fe(cert)12 b Ff(,)565 2715 y(in)m(t)31 b Fe(indx)12
b Ff(,)31 b(v)m(oid)g(*)g Fe(data)12 b Ff(,)31 b(size)p
1676 2715 V 41 w(t)g(*)g Fe(sizeof_data)12 b Fg(\()390
2825 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_cert_t)26 b FB(structure)390 2960 y Ff(indx)6
b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(extension)h(OID)f(to)h
(send.)40 b(Use)31 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390
3095 y Ff(data)p FB(:)41 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
(to)h(hold)f(the)h(data)g(\(ma)m(y)g(b)s(e)f(n)u)l)390
3230 y Ff(sizeof)p 610 3230 V 41 w(data)p FB(:)42 b(initially)31
b(holds)f(the)h(size)g(of)g Fs(oid)390 3365 y FB(This)21
b(function)g(will)g(return)f(the)i(requested)f(extension)h(data)g(in)f
(the)h(cert)\014cate.)39 b(The)21 b(extension)390 3475
y(data)31 b(will)g(b)s(e)f(stored)g(as)h(a)f(string)h(in)f(the)g(pro)m
(vided)g(bu\013er.)390 3610 y(Use)i Fs(gnutls_x509_cert_get_ext)o(ensi)o
(on_i)o(nfo)o(\()25 b FB(to)32 b(extract)h(the)f(OID)f(and)g
(critical)i(\015ag.)390 3720 y(Use)41 b Fs(gnutls_x509_cert_get_exten)o
(sio)o(n_by)o(oid)o(\()34 b FB(instead,)44 b(if)d(y)m(ou)g(w)m(an)m
(t)h(to)f(get)h(data)390 3829 y(indexed)30 b(b)m(y)g(the)h(extension)g
(OID)f(rather)g(than)g(sequence.)390 3964 y Fn>Returns:42
b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
4074 y(is)k(returned.)51 b(If)34 b(y)m(ou)h(ha)m(v)m(e)h(reac)m(hed)f
(the)g(last)g(extension)g(a)m(v)-5 b(ailable)37 b Fs
(GNUTLS_E_REQUESTED_)390 4183 y(DATA_NOT_AVAILABLE)25
b FB(will)31 b(b)s(e)f(returned.)150 4383 y Fu(gn)m(utls)p
483 4383 37 5 v 55 w(x509)p 786 4383 V 54 w(cert)p 993
4383 V 54 w(get)p 1212 4383 V 54 w(extension)p 1770 4383
V 55 w(info)3350 4581 y FB([F]-8 b(unction])-3599 b Fh(int)53
b(gnutls_x509_cert_get_e)q(xten)q(sio)q(n_i)q(nfo)f Fg(\()p
Ff(gn)m(utls)p 2464 4581 28 4 v 41 w(x509)p 2688 4581
V 41 w(cert)p 2840 4581 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
4690 y(in)m(t)31 b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(oid)12 b Ff(,)31 b(size)p 1624 4690 V 41 w(t)g(*)f

Fe(sizeof_oid)12 b Ff(,)33 b(in)m(t)e(*)g Fe(critical)12
 b Fg(\)390 4800 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
 Fs(gnutls_x509_crt_t)26 b FB(structure)390 4935 y Ff(indx)6
 b FB(:)40 b(Sp)s(eci\014es)30 b(whic)m(h)g(extension)h(OID)f(to)h
 (send.)40 b(Use)31 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390
 5070 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g
 (to)h(hold)f(the)h(OID)390 5205 y Ff(sizeof)p 610 5205
 V 41 w(oid)t FB(:)38 b(initially)26 b(holds)e(the)h(maxim)m(um)g(size)h
 (of)f Fs(oid)p FB(,)g(on)g(return)e(holds)i(actual)h(size)g(of)f
 Fs(oid)p FB(.)390 5340 y Ff(critical)t FB(:)42 b(output)30
 b(v)-5 b(ariable)31 b(with)f(critical)j(\015ag,)e(ma)m(y)g(b)s(e)
 (NULL.)p eop end
 %%Page: 216 222
 TeXDict begin 216 221 bop 150 -116 a FB(Chapter)30 b(9:)41
 b(F)-8 b(unction)31 b(Reference)2237 b(216)390 299 y(This)43
 b(function)h(will)g(return)f(the)h(requested)g(extension)h(OID)f(in)f
 (the)i(cert\014cate,)k(and)44 b(the)390 408 y(critical)g(\015ag)f(for)
 g(it.)77 b(The)42 b(extension)h(OID)g(will)g(b)s(e)f(stored)g(as)h(a)g
 (string)f(in)h(the)f(pro)m(vided)390 518 y(bu\013er.)e(Use)30
 b Fs(gnutls_x509_crt_get_extens)o(ion_)o(dat)o(a(\))24
 b FB(to)31 b(extract)h(the)e(data.)390 658 y(If)37 b(the)h(bu\013er)e
 (pro)m(vided)h(is)h(not)f(long)h(enough)g(to)g(hold)f(the)h(output,)h
 (then)e(*)p Fs(sizeof_oid)e FB(is)390 767 y(up)s(dated)29
 b(and)h Fs(GNUTLS_E_SHORT_MEMORY_BU)o(FFE)o(R)24 b FB(will)31
 b(b)s(e)f(returned.)390 907 y Fn>Returns:)42 b FB(On)30
 b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
 1017 y(is)k(returned.)51 b(If)34 b(y)m(ou)h(ha)m(v)m(e)h(reac)m(hed)f
 (the)g(last)g(extension)g(a)m(v)-5 b(ailable)37 b Fs
 (GNUTLS_E_REQUESTED_)390 1127 y(DATA_NOT_AVAILABLE)25
 b FB(will)31 b(b)s(e)f(returned.)150 1331 y Fu(gn)m(utls)p
 483 1331 37 5 v 55 w(x509)p 786 1331 V 54 w(crt)p 993
 1331 V 54 w(get)p 1212 1331 V 54 w(extension)p 1770 1331
 V 55 w(oid)3350 1533 y FB([F)-8 b(unction)]-3599 b Fh(int)53
 b(gnutls_x509_crt_get_e)q(xten)q(sio)q(n_o)q(id)f Fg(\)p
 Ff(gn)m(utls)p 2412 1533 28 4 v 40 w(x509)p 2635 1533
 V 42 w(crt)p 2788 1533 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
 1643 y(in)m(t)31 b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g
 Fe(oid)12 b Ff(,)31 b(size)p 1624 1643 V 41 w(t)g(*)f
 Fe(sizeof_oid)12 b Fg(\)390 1752 y Ff(cert)r FB(:)41
 b(should)30 b(con)m(tain)h(a)g Fs(gnutls_x509_crt_t)26
 b FB(structure)390 1892 y Ff(indx)6 b FB(:)40 b(Sp)s(eci\014es)30
 b(whic)m(h)g(extension)h(OID)f(to)h(send.)40 b(Use)31
 b(zero)g(to)g(get)h(the)e(\014rst)g(one.)390 2032 y Ff(oid)t
 FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(structure)g(to)h(hold)f(the)h
 (OID)f(\(ma)m(y)i(b)s(ed)n)m(ull\))390 2172 y Ff(sizeof)p
 610 2172 V 41 w(oid)t FB(:)41 b(initially)31 b(holds)f(the)h(size)g(of)
 g Fs(oid)390 2312 y FB(This)21 b(function)g(will)h(return)f(the)h

(requested)f(extension)i(OID)e(in)g(the)h(cert\014cate.)40
b(The)21 b(extension)390 2421 y(OID)30 b(will)h(b)s(e)f(stored)g(as)h
(a)g(string)f(in)g(the)h(pro)m(vided)f(bu\013er.)390
2561 y Fn>Returns:42 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27
b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)
390 2671 y(is)k(returned.)51 b(If)34 b(y)m(ou)h(ha)m(v)m(e)h(reac)m
(hed)f(the)g(last)g(extension)g(a)m(v)-5 b(ailable)37
b Fs(GNUTLS_E_REQUESTED_)390 2780 y(DATA_NOT_AVAILABLE)25
b FB(will)31 b(b)s(e)f(returned.)150 2985 y Fu(gn)m(utls)p
483 2985 37 5 v 55 w(x509)p 786 2985 V 54 w(crt)p 993
2985 V 54 w(get)p 1212 2985 V 54 w(\014ngerprin)m(t)3350
3187 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crt_get_f)q
(inge)q(rpr)q(int)f Fg(\()p Ff(gn)m(utls)p 2307 3187
28 4 v 41 w(x509)p 2531 3187 V 41 w(crt)p 2683 3187 V
41 w(t)30 b Fe(cert)12 b Ff(,)565 3297 y(gn)m(utls)p
811 3297 V 41 w(digest)p 1084 3297 V 40 w(algorithm)p
1507 3297 V 41 w(t)31 b Fe(algo)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(buf)12 b Ff(,)31 b(size)p 2528 3297 V 41 w(t)g(*)f
Fe(sizeof_buf)12 b Fg(\()390 3406 y Ff(cert)r FB(:)41
b(should)30 b(con)m(tain)h(a)g Fs(gnutls_x509_crt_t)26
b FB(structure)390 3546 y Ff(algo)5 b FB(:)42 b(is)30
b(a)h(digest)g(algorithm)390 3686 y Ff(buf)16 b FB(:)41
b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h(hold)f(the)h
(\014ngerprin)m(t)e(\(ma)m(y)i(b)s(e)f(n)m(ull\))390
3826 y Ff(sizeof)p 610 3826 V 41 w(buf)17 b FB(:)40 b(initially)32
b(holds)e(the)g(size)i(of)e Fs(buf)390 3966 y FB(This)20
b(function)g(will)g(calculate)j(and)d(cop)m(y)h(the)g(cert\014cate's)h
(\014ngerprin)m(t)e(in)g(the)h(pro)m(vided)f(bu\013er.)390
4106 y(If)30 b(the)g(bu\013er)g(is)g(n)m(ull)h(then)f(only)g(the)h
(size)g(will)g(b)s(e)e(\014lled.)390 4245 y Fn>Returns:39
b Fs(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o(R)21 b FB(if)27
b(the)h(pro)m(vided)e(bu\013er)h(is)g(not)g(long)h(enough,)390
4355 y(and)h(in)g(that)h(case)g(the)g(*sizeof)p 1479
4355 V 41 w(buf)e(will)i(b)s(e)f(up)s(dated)f(with)h(the)h(required)e
(size.)41 b(On)29 b(success)h(0)390 4465 y(is)g(returned.)150
4669 y Fu(gn)m(utls)p 483 4669 37 5 v 55 w(x509)p 786
4669 V 54 w(crt)p 993 4669 V 54 w(get)p 1212 4669 V 54
w(issuer)p 1570 4669 V 55 w(dn)p 1761 4669 V 54 w(b)m(y)p
1945 4669 V 54 w(oid)3350 4871 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_get_i)q(ssue)q(r_d)q(n_b)q(y_o)q(id)f
Fg(\()p Ff(gn)m(utls)p 2569 4871 28 4 v 40 w(x509)p 2792
4871 V 42 w(crt)p 2945 4871 V 40 w(t)565 4981 y Fe(cert)12
b Ff(,)31 b(const)g(c)m(har)g(*)g Fe(oid)12 b Ff(,)31
b(in)m(t)g Fe(indx)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(raw_flag)12 b Ff(,)33 b(v)m(oid)e(*)f Fe(buf)12 b
Ff(,)31 b(size)p 3641 4981 V 41 w(t)565 5091 y(*)g Fe(sizeof_buf)12
b Fg(\()390 5200 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_crt_t)26 b FB(structure)390 5340 y Ff(oid)t

FB(:)40 b(holds)30 b(an)h(Ob)5 b(ject)30 b(Ide)m(ti\014ed)g(in)g(n)m
(ull)g(terminated)h(string)p eop end
%%Page: 217 223
TeXDict begin 217 222 bop 150 -116 a FB(Chapter)30 b(9):41
b(F)-8 b(unction)31 b(Reference)2237 b(217)390 299 y
Ff(indx)6 b FB(:)39 b(In)26 b(case)j(m)m(ultiple)f(same)g(OIDs)f(exist)
h(in)f(the)h(RDN,)g(this)f(sp)s(eci\014es)g(whic)m(h)g(to)i(send.)39
b(Use)390 408 y(zero)31 b(to)g(get)h(the)e(\014rst)g(one.)390
543 y Ff(ra)m(w)p 540 543 28 4 v 40 w(\015ag)8 b FB(:)41
b(If)30 b(non)g(zero)h(returns)e(the)i(ra)m(w)f(DER)h(data)g(of)f(the)h
(DN)g(part.)390 677 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h
(a)g(structure)f(to)h(hold)f(the)h(name)f(\(ma)m(y)h(b)s(e)f(n)m(ull\))
390 811 y Ff(sizeof)p 610 811 V 41 w(buf)17 b FB(:)40
b(initially)32 b(holds)e(the)g(size)i(of)e Fs(buf)390
945 y FB(This)i(function)h(will)g(extract)i(the)e(part)g(of)g(the)g
(name)g(of)g(the)g(Certi\014cate)h(issuer)f(sp)s(eci\014ed)f(b)m(y)390
1054 y(the)g(giv)m(en)h(OID.)f(The)f(output,)i(if)h(the)g(ra)m(w)g
(\015ag)g(is)g(not)g(used,)g(will)g(b)s(e)f(enco)s(ded)h(as)g(describ)s
(ed)390 1164 y(in)44 b(RF)m(C2253.)83 b(Th)m(us)43 b(a)h(string)g(that)
g(is)g(ASCII)s(D)e(or)i(UTF-8)h(enco)s(ded,)i(dep)s(ending)42
b(on)i(the)390 1274 y(cert\014cate)32 b(data.)390 1408
y(Some)g(help)s(er)f(macros)i(with)f(p)s(opular)f(OIDs)h(can)g(b)s(e)g
(found)f(in)g(gn)m(utls/x509.h)j(If)e(ra)m(w)g(\015ag)h(is)390
1517 y(zero,)39 b(this)e(function)f(will)h(only)f(return)g(kno)m(wn)g
(OIDs)g(as)h(text.)61 b(Other)36 b(OIDs)g(will)h(b)s(e)f(DER)390
1627 y(enco)s(ded.)29 b(as)f(describ)s(ed)f(in)h(RF)m(C2253)i({})f(in)f
(hex)g(format)h(with)e(a)i(')p Fs(\)p FB(#')f(pre\014x.)39
b(Y)-8 b(ou)29 b(can)f(c)m(hec)m(k)390 1736 y(ab)s(out)i(kno)m(wn)g
(OIDs)g(using)g Fs(gnutls_x509_dn_oid_known)o(\)p
FB(.)390 1871 y(If)g Fs(buf)f FB(is)j(n)m(ull)f(then)g(only)h(the)f
(size)h(will)g(b)s(e)f(\014lled.)390 2005 y Fn>Returns:71
b FB(GNUTLS)p 1196 2005 V 39 w(E)p 1297 2005 V 40 w(SHOR)-8
b(T)p 1652 2005 V 39 w(MEMOR)g(Y)p 2117 2005 V 41 w(BUFFER)47
b(if)e(the)h(pro)m(vided)f(bu\013er)f(is)i(not)390 2114
y(long)31 b(enough,)f(and)g(in)f(that)i(case)g(the)g(*sizeof)p
2018 2114 V 41 w(buf)e(will)i(b)s(e)e(up)s(dated)g(with)h(the)g
(required)g(size.)390 2224 y(On)g(success)g(0)h(is)f(returned.)150
2422 y Fu(gn)m(utls)p 483 2422 37 5 v 55 w(x509)p 786
2422 V 54 w(cert)p 993 2422 V 54 w(get)p 1212 2422 V 54
w(issuer)p 1570 2422 V 55 w(dn)p 1761 2422 V 54 w(oid)3350
2618 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_cert_get_i)q
(ssue)q(r_d)q(n_o)q(id)f Fg(\)p Ff(gn)m(utls)p 2412
2618 28 4 v 40 w(x509)p 2635 2618 V 42 w(cert)p 2788 2618
V 40 w(t)31 b Fe(cert)12 b Ff(,)565 2728 y(in)m(t)31
b Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g Fe(oid)12 b Ff(,)31
b(size)p 1624 2728 V 41 w(t)g(*)f Fe(sizeof_oid)12 b
Fg(\)390 2837 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_cert_t)26 b FB(structure)390 2972 y Ff(indx)6

b FB(:)40 b(This)30 b(sp)s(eci\014es)g(whic)m(h)g(OID)g(to)h(return.)40
b(Use)31 b(zero)g(to)g(get)g(the)g(\014rst)f(one.)390
3106 y Ff(oid)t FB(:)40 b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(bu\013er)g
(to)h(hold)f(the)h(OID)f(\(ma)m(y)h(b)s(e)f(n)m(ull))390
3240 y Ff(sizeof)p 610 3240 V 41 w(oid)t FB(:)41 b(initially)31
b(holds)f(the)h(size)g(of)g Fs(oid)390 3374 y FB(This)e(function)h
(will)g(extract)i(the)e(OIDs)f(of)i(the)f(name)g(of)g(the)g
(Certi\014cate)h(issuer)f(sp)s(eci\014ed)f(b)m(y)390
3483 y(the)i(giv)m(en)g(index.)390 3618 y(If)Ff Fs(oid)f
FB(is)i(n)m(ull)f(then)g(only)h(the)f(size)h(will)g(b)s(e)f(\014lled.)
390 3752 y Fn>Returns:)71 b FB(GNUTLS)p 1196 3752 V 39
w(E)p 1297 3752 V 40 w(SHOR)-8 b(T)p 1652 3752 V 39 w(MEMOR)g(Y)p
2117 3752 V 41 w(BUFFER)47 b(ife(the)h(pro)m(vided)f(bu\013er)f(is)i
(not)390 3861 y(long)31 b(enough,)g(and)f(in)h(that)g(case)h(the)f
(*sizeof)p 2022 3861 V 41 w(oid)g(will)g(b)s(e)f(up)s(dated)g(with)g
(the)h(required)f(size.)390 3971 y(On)g(success)g(0)h(is)f(returned.)
150 4169 y Fu(gn)m(utls)p 483 4169 37 5 v 55 w(x509)p
786 4169 V 54 w(cert)p 993 4169 V 54 w(get)p 1212 4169
V 54 w(issuer)p 1570 4169 V 55 w(dn)3350 4365 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_x509_cert_get_i)q(ssue)q(r_d)q(n)e
Fg(\()p Ff(gn)m(utls)p 2202 4365 28 4 v 41 w(x509)p 2426
4365 V 42 w(cert)p 2579 4365 V 40 w(t)31 b Fe(cert)12
b Ff(,)31 b(c)m(har)g(*)565 4475 y Fe(buf)12 b Ff(,)31
b(size)p 936 4475 V 41 w(t)g(*)f Fe(sizeof_buf)12 b Fg(\()390
4584 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_cert_t)26 b FB(structure)390 4719 y Ff(buf)16
b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h(hold)f
(the)h(name)f(\(ma)m(y)h(b)s(e)f(n)m(ull))390 4853 y
Ff(sizeof)p 610 4853 V 41 w(buf)17 b FB(:)40 b(initially)32
b(holds)e(the)g(size)i(of)e Fs(buf)390 4987 y FB(This)d(function)h
(will)g(cop)m(y)g(the)g(name)g(of)g(the)g(Certi\014cate)h(issuer)f(in)f
(the)h(pro)m(vided)g(bu\013er.)38 b(The)390 5096 y(name)24
b(will)h(b)s(e)e(in)h(the)g(form)g Fs("")p FB(C=xxxx,O=yyyy)-8
b(,CN=zzzz)p Fs("")24 b FB(as)g(describ)s(ed)f(in)h(RF)m(C2253.)40
b(The)390 5206 y(output)30 b(string)g(will)h(b)s(e)f(ASCII)s(I)f(or)h
(UTF-8)h(enco)s(ded,)f(dep)s(ending)f(on)i(the)f(cert\014cate)j(data.)
390 5340 y(If)d Fs(buf)f FB(is)i(n)m(ull)f(then)g(only)h(the)f(size)h
(will)g(b)s(e)f(\014lled.)p eop end
%%Page: 218 224
TeXDict begin 218 223 bop 150 -116 a FB(Chapter)30 b(9):41
b(F)-8 b(unction)31 b(Reference)2237 b(218)390 299 y
Fn>Returns:)71 b FB(GNUTLS)p 1196 299 28 4 v 39 w(E)p
1297 299 V 40 w(SHOR)-8 b(T)p 1652 299 V 39 w(MEMOR)g(Y)p
2117 299 V 41 w(BUFFER)47 b(ife(the)h(pro)m(vided)f(bu\013er)f(is)i
(not)390 408 y(long)31 b(enough,)f(and)g(in)f(that)i(case)g(the)g
(*sizeof)p 2018 408 V 41 w(buf)e(will)i(b)s(e)e(up)s(dated)g(with)h
(the)g(required)g(size.)390 518 y(On)g(success)g(0)h(is)f(returned.)150
714 y Fu(gn)m(utls)p 483 714 37 5 v 55 w(x509)p 786 714

V 54 w(crt)p 993 714 V 54 w(get)p 1212 714 V 54 w(issuer)3350
907 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crt_get_i)q
(ssue)q(r)f Fg(\()p Ff(gn)m(utls)p 2046 907 28 4 v 40
w(x509)p 2269 907 V 42 w(crt)p 2422 907 V 40 w(t)31 b
Fe(cert)12 b Ff(,)565 1016 y(gn)m(utls)p 811 1016 V 41
w(x509)p 1035 1016 V 41 w(dn)p 1178 1016 V 39 w(t)31
b(*)f Fe(dn)12 b Fg(\))390 1126 y Ff(cert)r FB(:)41 b(should)30
b(con)m(tain)h(a)g Fs(gnutls_x509_crt_t)26 b FB(structure)390
1258 y Ff(dn)p FB(:)40 b(output)30 b(v)-5 b(ariable)31
b(with)f(p)s(oin)m(ter)g(to)h(opaque)g(DN)390 1391 y(Return)k(the)i
(Certi\014cate's)h(Issuer)d(DN)i(as)f(an)g(opaque)h(data)g(t)m(y)p(s(e.)
58 b(Y)-8 b(ou)37 b(ma)m(y)g(use)f Fs(gnutls_)390 1501
y(x509_dn_get_rdn_ava(\))25 b FB(to)31 b(deco)s(de)f(the)h(DN.)390
1633 y(Note)d(that)g Fs(dn)e FB(should)g(b)s(e)g(treated)i(as)f
(constan)m(t.)41 b(Because)28 b(p)s(oin)m(ts)e(in)m(to)i(the)f
Fs(cert)f FB(ob)5 b(ject,)29 b(y)m(ou)390 1743 y(ma)m(y)i(not)g(deallo)
s(cate)h Fs(cert)e FB(and)f(con)m(tin)m(ue)j(to)f(access)h
Fs(dn)p FB(.)390 1875 y Fn>Returns:)40 b FB>Returns)30
b(0)h(on)f(success,)h(or)f(an)g(error)g(co)s(de.)150
2071 y Fu(gn)m(utls)p 483 2071 37 5 v 55 w(x509)p 786
2071 V 54 w(crt)p 993 2071 V 54 w(get)p 1212 2071 V 54
w(k)m(ey)p 1449 2071 V 53 w(id)3350 2264 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_get_k)q(ey_i)q(d)f Fg(\()p
Ff(gn)m(utls)p 2046 2264 28 4 v 40 w(x509)p 2269 2264
V 42 w(crt)p 2422 2264 V 40 w(t)31 b Fe(cert)12 b Ff(,)31
b(unsigned)565 2374 y(in)m(t)g Fe(flags)12 b Ff(,)32
b(unsigned)d(c)m(har)i(*)f Fe(output_data)12 b Ff(,)34
b(size)p 2477 2374 V 41 w(t)c(*)h Fe(output_data_size)12
b Fg(\))390 2483 y Ff(cert)r FB(:)41 b(Holds)31 b(the)f(cert)014cate
390 2616 y Ff(\015ags)t FB(:)41 b(should)29 b(b)s(e)h(0)h(for)f(no)m(w)
390 2748 y Ff(output)p 664 2748 V 40 w(data)p FB(:)41
b(will)31 b(con)m(tain)h(the)e(k)m(ey)h(ID)390 2881 y
Ff(output)p 664 2881 V 40 w(data)p 880 2881 V 40 w(size)5
b FB(:)49 b(holds)34 b(the)g(size)h(of)f(output)p 2093
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3717 y Fn(Return)f(v)-5 b(blue:)41 b FB(In)30 b(case)h(of)g(failure)f
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(DN)390 1021 y(This)c(function)g(will)h(return)e(a)i(p)s(oin)m(ter)g
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(serialNum)m(b)s(er)f(\014eld.)54 b(Serial)35 b(is)g(not)g(alw)m(a)m
(ys)i(a)e(32)h(or)f(64bit)h(n)m(um)m(b)s(er.)390 2577
y(Some)g(CAs)g(use)g(large)h(serial)g(n)m(um)m(b)s(ers,)f(th)m(us)g(it)
h(ma)m(y)f(b)s(e)g(wise)g(to)h(handle)e(it)i(as)f(something)390
2686 y(opaque.)390 2833 y Fn>Returns:73 b FB(On)47 b(success,)k
Fs(GNUTLS_E_SUCCESS)42 b FB(is)47 b(returned,)k(otherwise)c(a)g
(negativ)m(e)i(error)390 2943 y(v)-5 b(alue.and)31 b(a)f(negativ)m(e)j
(v)-5 b(alue)31 b(in)f(case)h(of)g(an)f(error.)150 3154
y Fu(gn)m(utls)p 483 3154 37 5 v 55 w(x509)p 786 3154
V 54 w(cert)p 993 3154 V 54 w(get)p 1212 3154 V 54 w(signature)p
1759 3154 V 55 w(algorithm)3350 3363 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_x509_cert_get_s)q(igna)q(tur)q(e_a)q(lgo)q(rith)q
(m)e Fg(\()p Ff(gn)m(utls)p 2725 3363 28 4 v 41 w(x509)p
2949 3363 V 42 w(cert)p 3102 3363 V 40 w(t)565 3473 y
Fe(cert)12 b Fg(\()390 3582 y Ff(cert)r FB(:)41 b(should)30
b(con)m(tain)h(a)g Fs(gnutls_x509_cert_t)26 b FB(structure)390
3729 y(This)f(function)h(will)h(return)e(a)h(v)-5 b(alue)27
b(of)f(the)h Fs(gnutls_sign_algorithm_t)20 b FB(en)m(umeration)26
b(that)390 3839 y(is)k(the)h(signature)g(algorithm.)390
3986 y Fn>Returns:40 b FB(a)31 b Fs(gnutls_sign_algorithm_t)24
b FB(v)-5 b(alue,)31 b(or)g(a)f(negativ)m(e)j(v)-5 b(alue)31
b(on)f(error.)150 4197 y Fu(gn)m(utls)p 483 4197 37 5
v 55 w(x509)p 786 4197 V 54 w(cert)p 993 4197 V 54 w(get)p
1212 4197 V 54 w(signature)3350 4406 y FB([F]-8 b(unction])-3599

b Fh(int)53 b(gnutls_x509_crt_get_s)q(igna)q(tur)q(e)
Fg(\()p Ff(gn)m(utls)p 2202 4406 28 4 v 41 w(x509)p 2426
4406 V 42 w(crt)p 2579 4406 V 40 w(t)31 b Fe(cert)12
b Ff(,)31 b(c)m(har)g(*)565 4516 y Fe(sig)12 b Ff(,)31
b(size)p 936 4516 V 41 w(t)g(*)f Fe(sizeof_sig)12 b Fg(\())390
4625 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_crt_t)26 b FB(structure)390 4772 y Ff(sig)8
b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(where)g(the)h(signature)f(part)h
(will)f(b)s(e)g(copied)h(\(ma)m(y)g(b)s(e)f(n)m(ull\).)390
4919 y Ff(sizeof)p 610 4919 V 41 w(sig)8 b FB(:)41 b(initially)32
b(holds)e(the)g(size)i(of)e Fs(sig)390 5066 y FB(This)g(function)g
(will)g(extract)i(the)f(signature)f(\014eld)g(of)h(a)g(cert\014cate.)
390 5213 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)
16 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 5322 y(and)30 b(a)h(negativ)m(e)h(v)-5 b(alue)31
b(on)f(error.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(222)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crt)p 993 299 V 54 w(get)p 1212 299 V 54 w(sub)7 b(ject)p
1653 299 V 54 w(alt)p 1849 299 V 54 w(name2)3350 497
y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_x509_crt_get_s)q(ubje)
q(ct_)q(alt)q(_na)q(me2)f Fg(\()p Ff(gn)m(utls)p 2621
497 28 4 v 41 w(x509)p 2845 497 V 41 w(crt)p 2997 497
V 40 w(t)565 606 y Fe(cert)12 b Ff(,)31 b(unsigned)f(in)m(t)h
Fe(seq)12 b Ff(,)31 b(v)m(oid)g(*)f Fe(ret)12 b Ff(,)31
b(size)p 2227 606 V 41 w(t)g(*)g Fe(ret_size)12 b Ff(,)32
b(unsigned)d(in)m(t)i(*)565 716 y Fe(ret_type)12 b Ff(,)33
b(unsigned)c(in)m(t)i(*)g Fe(critical)12 b Fg(\())390
826 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_crt_t)26 b FB(structure)390 961 y Ff(seq)r
FB(:)38 b(sp)s(eci\014es)23 b(the)h(sequence)g(n)m(um)m(b)s(er)f(of)g
(the)h(alt)h(name)f(\00)g(for)g(the)g(\014rst)f(one,)j(1)f(for)g(the)g
(second)390 1071 y(etc.)390 1206 y Ff(ret)r FB(:)41
b(is)30 b(the)h(place)g(where)f(the)h(alternativ)m(e)i(name)d(will)h(b)
s(e)e(copied)i(to)390 1342 y Ff(ret)p 507 1342 V 40 w(size)5
b FB(:)42 b(holds)30 b(the)g(size)i(of)e(ret.)390 1478
y Ff(ret)p 507 1478 V 40 w(t)m(yp)s(e)5 b FB(:)36 b(holds)20
b(the)h(t)m(yp)s(e)f(of)g(the)h(alternativ)m(e)i(name)d(\(one)h(of)f
(gn)m(utls)p 2798 1478 V 41 w(x509)p 3022 1478 V 41 w(sub)5
b(ject)p 3349 1478 V 40 w(alt)p 3494 1478 V 41 w(name)p
3747 1478 V 40 w(t\.)390 1613 y Ff(critical)t FB(:)42
b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h(extension)g(is)f(mark)m(ed)
g(as)h(critical)h(\(ma)m(y)g(b)s(e)d(n)m(ull\))390 1749
y(This)g(function)h(will)h(return)e(the)h(alternativ)m(e)i(names,)f
(con)m(tained)g(in)f(the)g(giv)m(en)h(cert\014cate.)43
b(It)390 1858 y(is)31 b(the)f(same)h(as)g Fs(gnutls_x509_crt_get_subje)

o(ct_)o(alt_)o(name)o(\())24 b FB(except)32 b(for)e(the)h(fact)g(that)
390 1968 y(it)h(will)g(return)f(the)h(t)m(yp)s(e)g(of)f(the)h
(alternativ)m(e)j(name)c(in)h Fs(ret_type)d FB(ev)m(en)j(if)g(the)g
(function)f(fails)390 2077 y(for)f(some)h(reason)g(\(i.e.)41
b(the)31 b(bu\013er)e(pro)m(vided)h(is)h(not)f(enough\.)390
2213 y Fn(Returns:)81 b FB(the)50 b(alternativ)m(e)j(sub)5
b(ject)51 b(name)f(t)m(yp)s(e)h(on)f(success,)56 b(one)51
b(of)g(the)g(en)m(umerated)390 2323 y Fs(gnutls_x509_subject_alt_)o
(name)o(_t)p FB(.)32 b(It)24 b(will)g(return)f Fs
(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o(R)390 2432 y FB(if)30
b Fs(ret_size)e FB(is)i(not)g(large)h(enough)f(to)h(hold)e(the)h(v)-5
b(alue.)41 b(In)30 b(that)g(case)h Fs(ret_size)d FB(will)i(b)s(e)g(up-)
390 2542 y(dated)24 b(with)g(the)g(required)f(size.)39
b(If)24 b(the)g(cert\014cate)i(do)s(es)d(not)h(ha)m(v)m(e)h(an)f
(Alternativ)m(e)i(name)e(with)390 2651 y(the)41 b(sp)s(eci\014ed)g
(sequence)g(n)m(um)m(b)s(er)f(then)h Fs(GNUTLS_E_REQUESTED_DATA_)o
(NOT_)o(AVA)o(ILAB)o(LE)35 b FB(is)390 2761 y(returned.)150
2961 y Fu(gn)m(utls)p 483 2961 37 5 v 55 w(x509)p 786
2961 V 54 w(cert)p 993 2961 V 54 w(get)p 1212 2961 V 54
w(sub)7 b(ject)p 1653 2961 V 54 w(alt)p 1849 2961 V 54
w(name)3350 3159 y FB([F]-8 b(unction])-3599 b Fh(int)53
b(gnutls_x509_cert_get_s)q(ubje)q(ct_)q(alt)q(_na)q(me)f
Fg(\(p Ff(gn)m(utls)p 2569 3159 28 4 v 40 w(x509)p 2792
3159 V 42 w(cert)p 2945 3159 V 40 w(t)565 3269 y Fe(cert)12
b Ff(,)31 b(unsigned)f(in)m(t)h Fe(seq)12 b Ff(,)31 b(v)m(oid)g(*)f
Fe(ret)12 b Ff(,)31 b(size)p 2227 3269 V 41 w(t)g(*)g
Fe(ret_size)12 b Ff(,)32 b(unsigned)d(in)m(t)i(*)565
3378 y Fe(critical)12 b Fg(\())390 3488 y Ff(cert)r FB(:)41
b(should)30 b(con)m(tain)h(a)g Fs(gnutls_x509_cert_t)26
b FB(structure)390 3624 y Ff(seq)r FB(:)38 b(sp)s(eci\014es)23
b(the)h(sequence)g(n)m(um)m(b)s(er)f(of)g(the)h(alt)h(name)f(\(0)g(for)
g(the)g(\014rst)f(one,)i(1)f(for)g(the)g(second)390 3733
y(etc.))390 3869 y Ff(ret)r FB(:)41 b(is)30 b(the)h(place)g(wher)f
(the)h(alternativ)m(e)i(name)d(will)h(b)s(e)e(copied)i(to)390
4004 y Ff(ret)p 507 4004 V 40 w(size)5 b FB(:)42 b(holds)30
b(the)g(size)i(of)e(ret.)390 4140 y Ff(critical)t FB(:)42
b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the)h(extension)g(is)f(mark)m(ed)
g(as)h(critical)h(\(ma)m(y)g(b)s(ed)n)m(ull\))390 4276
y(This)h(function)g(will)g(return)g(the)g(alternativ)m(e)j(names,)e
(con)m(tained)g(in)f(the)h(giv)m(en)g(cert\014cate.)390
4411 y(This)c(is)h(sp)s(eci\014ed)f(in)g(X509v3)i(Certi\014cate)g
(Extensions.)40 b(GNUTLS)28 b(will)g(return)e(the)i(Alterna-)390
4521 y(tiv)m(e)k(name)e(\(2.5.29.17\),)35 b(or)30 b(a)h(negativ)m(e)i
(error)d(co)s(de.)390 4656 y(When)g(the)h(SAN)f(t)m(yp)s(e)g(is)h
(otherName,)g(it)g(will)g(extract)h(the)e(data)h(in)f(the)h
(otherName's)g(v)-5 b(alue)390 4766 y(\014eld,)29 b(and)e
Fs(GNUTLS_SAN_OTHERNAME)c FB(is)28 b(returned.)39 b(Y)-8
b(ou)29 b(ma)m(y)g(use)e Fs(gnutls_x509_cert_get_)390

4876 y(subject_alt_othername_oi)o(d\(\))15 b FB(to)23
b(get)g(the)f(corresp)s(onding)f(OID)g(and)h(the)g Fs("")p
FB(virtual)p Fs("")f FB(SAN)390 4985 y(tm)yp)s(es)30
b(\(e.g.,)j Fs(GNUTLS_SAN_OTHERNAME_XM)o(PP)p FB(\).)390
5121 y(If)j(an)h(otherName)h(OID)e(is)h(kno)m(wn,)h(the)f(data)g(will)g
(b)s(e)f(deco)s(ded.)60 b(Otherwise)36 b(the)h(returned)390
5230 y(data)d(will)f(b)s(e)g(DER)g(enco)s(ded,)h(and)f(y)m(ou)g(will)h
(ha)m(v)m(e)g(to)g(deco)s(de)g(it)f(y)m(ourself.)50 b(Curren)m(tly)-8
b(,)34 b(only)390 5340 y(the)d(RF)m(C)f(3920)i(id-on-xmppAddr)d(SAN)h
(is)g(recognized.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(223)390 299 y
Fn>Returns:)81 b FB(the)50 b(alternativ)m(e)j(sub)5 b(ject)51
b(name)f(t)m(yp)s(e)h(on)f(success,)56 b(one)51 b(of)g(the)g(en)m
(umerated)390 408 y Fs(gnutls_x509_subject_alt_)o(name)o(_t)p
FB(.)32 b(It)24 b(will)g(return)f Fs(GNUTLS_E_SHORT_MEMORY_B)o(UFFE)o
(R)390 518 y FB(if)30 b Fs(ret_size)e FB(is)i(not)g(large)h(enough)f
(to)h(hold)e(the)h(v)-5 b(alue.)41 b(In)30 b(that)g(case)h
Fs(ret_size)d FB(will)i(b)s(e)g(up-)390 628 y(dated)24
b(with)g(the)g(required)f(size.)39 b(If)24 b(the)g(certifi\014cate)i(do)s
(es)d(not)h(ha)m(v)m(e)h(an)f(Alternativ)m(e)i(name)e(with)390
737 y(the)41 b(sp)s(eci\014ed)g(sequence)g(n)m(um)m(b)s(er)f(then)h
Fs(GNUTLS_E_REQUESTED_DATA_)o(NOT_)o(AVA)o(ILAB)o(LE)35
b FB(is)390 847 y(returned.)150 1033 y Fu(gn)m(utls)p
483 1033 37 5 v 55 w(x509)p 786 1033 V 54 w(cert)p 993
1033 V 54 w(get)p 1212 1033 V 54 w(sub)7 b(ject)p 1653
1033 V 54 w(alt)p 1849 1033 V 54 w(othername)p 2472 1033
V 54 w(oid)3350 1217 y FB([F)-8 b(unction])-3599 b Fh(int)53
b(gnutls_x509_cert_get_s)q(ubje)q(ct_)q(alt)q(_ot)q(hern)q(ame)q(_oi)q
(d)565 1327 y Fg(\()p Ff(gn)m(utls)p 846 1327 28 4 v
41 w(x509)p 1070 1327 V 41 w(cert)p 1222 1327 V 41 w(t)30
b Fe(cert)12 b Ff(,)32 b(unsigned)d(in)m(t)i Fe(seq)12
b Ff(,)31 b(v)m(oid)g(*)f Fe(ret)12 b Ff(,)31 b(size)p
2984 1327 V 41 w(t)g(*)g Fe(ret_size)12 b Fg(\()390 1436
y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g Fs
(gnutls_x509_cert_t)26 b FB(structure)390 1565 y Ff(seq)r
FB(:)38 b(sp)s(eci\014es)23 b(the)h(sequence)g(n)m(um)m(b)s(er)f(of)g
(the)h(alt)h(name)f(\()g(for)g(the)g(\014rst)f(one,)i(1)f(for)g(the)g
(second)390 1674 y(etc.))390 1802 y Ff(ret)r FB(:)41
b(is)30 b(the)h(place)g(where)f(the)h(otherName)g(OID)f(will)h(b)s(e)f
(copied)h(to)390 1930 y Ff(ret)p 507 1930 V 40 w(size)5
b FB(:)42 b(holds)30 b(the)g(size)i(of)e(ret.)390 2058
y(This)f(function)g(will)h(extract)g(the)g(t)m(yp)s(e)g(OID)f(of)h(an)f
(otherName)h(Sub)5 b(ject)29 b(Alternativ)m(e)j(Name,)390
2168 y(con)m(tained)g(in)e(the)g(giv)m(en)i(certifi\014cate,)g(and)e
(return)f(the)i(t)m(yp)s(e)f(as)h(an)f(en)m(umerated)h(elemen)m(t.)390
2296 y(This)c(function)g(is)g(only)g(useful)g(if)g Fs

(gnutls_x509_cert_get_subject_oid_name)21
b FB(returned)390 2406 y Fs(GNUTLS_SAN_OTHERNAME)p FB(.)390
2534 y Fn>Returns:81 b FB(the)50 b(alternative)j(sub)5
b(ject)51 b(name)f(t)m(yp)s(e)h(on)f(success,)56 b(one)51
b(of)g(the)g(en)m(umerated)390 2643 y(gn)m(utls)p 636
2643 V 40 w(x509)p 859 2643 V 42 w(sub)5 b(ject)p 1187
2643 V 40 w(alt)p 1332 2643 V 41 w(name)p 1585 2643 V
40 w(t.)39 b(F)-8 b(or)24 b(supp)s(orted)f(OIDs,)i(it)g(will)f(return)f
(one)h(of)g(the)h(virtual)390 2753 y(GNUTLS)p 812 2753
V 40 w(SAN)p 1039 2753 V 40 w(OTHERNAME)p 1694 2753 V
40 w(*))79 b(t)m(yp)s(es,)90 b(e.g.)185 b Fs(GNUTLS_SAN_OTHERNAME_XM)o
(PP)p FB(.)390 2863 y(and)43 b Fs(GNUTLS_SAN_OTHERNAME)38
b FB(for)43 b(unkno)m(w)n)f(OIDs.)80 b(It)44 b(will)g(return)e
Fs(GNUTLS_E_SHORT_)390 2972 y(MEMORY_BUFFER)f FB(if)j
Fs(ret_size)f FB(is)h(not)h(large)h(enough)e(to)h(hold)f(the)h(v)-5
b(alue.)84 b(In)44 b(that)h(case)390 3082 y Fs(ret_size)30
b FB(will)j(b)s(e)u(p)s(dated)g(with)h(the)g(required)g(size.)47
b(If)32 b(the)g(cert)014cate)i(do)s(es)e(not)h(ha)m(v)m(e)g(an)390
3191 y(Alternative)m(e)h(name)f(with)e(the)i(sp)s(eci)014ed)e(sequence)i
(n)m(um)m(b)s(er)e(and)g(with)h(the)h(otherName)g(t)m(yp)s(e)390
3301 y(then)d Fs(GNUTLS_E_REQUESTED_DATA_N)o(OT_)o(AVAI)o(LABL)o(E)24
b FB(is)31 b(returned.)150 3487 y Fu(gn)m(utls)p 483
3487 37 5 v 55 w(x509)p 786 3487 V 54 w(cert)p 993 3487
V 54 w(get)p 1212 3487 V 54 w(sub)7 b(ject)p 1653 3487
V 54 w(k)m(ey)p 1890 3487 V 53 w(id)3350 3671 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_x509_cert_get_s)q(ubje)q(ct_)q
(key)q(_id)f Fg(\)p Ff(gn)m(utls)p 2464 3671 28 4 v
41 w(x509)p 2688 3671 V 41 w(cert)p 2840 3671 V 40 w(t)31
b Fe(cert)12 b Ff(,)565 3781 y(v)m(oid)31 b(*)g Fe(ret)12
b Ff(,)31 b(size)p 1209 3781 V 41 w(t)f(*h Fe(ret_size)12
b Ff(,)33 b(unsigned)c(in)m(t)i(*)g Fe(critical)12 b
Fg(\)390 3891 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_cert_t)26 b FB(structure)390 4019 y Ff(ret)r
FB(:)41 b(The)30 b(place)h(where)f(the)h(iden)m(ti)014er)f(will)h(b)s
(e)f(copied)390 4147 y Ff(ret)p 507 4147 V 40 w(size)5
b FB(:)42 b(Holds)31 b(the)f(size)h(of)g(the)f(result)h(014eld.)390
4275 y Ff(critical)t FB(:)42 b(will)31 b(b)s(e)f(non)f(zero)j(if)e(the
h(extension)g(is)f(mark)m(ed)g(as)h(critical)h(\(ma)m(y)g(b)s(e)d(n)m
(ull))390 4403 y(This)44 b(function)h(will)g(return)f(the)h(X.509v3)i
(cert)014cate's)g(sub)5 b(ject)45 b(k)m(ey)h(iden)m(ti)014er.)85
b(This)44 b(is)390 4513 y(obtained)31 b(b)m(y)f(the)h(X.509)h(Sub)5
b(ject)29 b(Key)i(iden)m(ti)014er)f(extension)h(014eld)f
(2.5.29.14).)390 4641 y Fn>Returns:)73 b FB(On)47
b(success,)k Fs(GNUTLS_E_SUCCESS)42 b FB(is)47 b(returned,)k(otherwise)
c(a)g(negative)m(e)i(error)390 4750 y(v)-5 b(alue.and)31
b(a)f(negative)m(e)j(v)-5 b(alue)31 b(in)f(case)h(of)g(an)f(error.)150
4937 y Fu(gn)m(utls)p 483 4937 37 5 v 55 w(x509)p 786
4937 V 54 w(cert)p 993 4937 V 54 w(get)p 1212 4937 V 54

w(sub)7 b(ject)3350 5121 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_cert_get_s)q(ubje)q(ct)f Fg(\()p
Ff(gn)m(utls)p 2098 5121 28 4 v 41 w(x509)p 2322 5121
V 41 w(cert)p 2474 5121 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
5230 y(gn)m(utls)p 811 5230 V 41 w(x509)p 1035 5230 V
41 w(dn)p 1178 5230 V 39 w(t)31 b(*)f Fe(dn)12 b Fg(\)390
5340 y Ff(cert)r FB(:)41 b(should)30 b(con)m(tain)h(a)g
Fs(gnutls_x509_cert_t)26 b FB(structure)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(224)390 299 y
Ff(dn)p FB(:)40 b(output)30 b(v)-5 b(riable)31 b(with)f(p)s(oin)m(ter)
g(to)h(opaque)g(DN.)390 432 y(Return)g(the)h(Certi\014cate's)h(Sub)5
b(ject)31 b(DN)h(as)g(an)f(opaque)h(data)h(t)m(yp)s(e.)44
b(Y)-8 b(ou)32 b(ma)m(y)h(use)e Fs(gnutls_)390 541 y
(x509_dn_get_rdn_ava\(\))25 b FB(to)31 b(deco)s(de)f(the)h(DN.)390
674 y(Note)d(that)g Fs(dn)e FB(should)g(b)s(e)g(treated)i(as)f(constan
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Fs(cert)f FB(ob)5 b(ject,)29 b(y)m(ou)390 784 y(ma)m(y)i(not)g(deallo)s
(cate)h Fs(cert)e FB(and)f(con)m(tin)m(ue)j(to)f(access)h
Fs(dn)p FB(.)390 917 y Fn>Returns:)40 b FB>Returns)30
b(0)h(on)f(success,)h(or)f(an)g(error)g(co)s(de.)150
1113 y Fu(gn)m(utls)p 483 1113 37 5 v 55 w(x509)p 786
1113 V 54 w(cert)p 993 1113 V 54 w(get)p 1212 1113 V 54
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FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_cert_get_v)q(erif)q
(y_a)q(lgo)q(rit)q(hm)f Fg(\()p Ff(gn)m(utls)p 2569 1306
28 4 v 40 w(x509)p 2792 1306 V 42 w(cert)p 2945 1306 V
40 w(t)565 1416 y Fe(cert)12 b Ff(,)31 b(const)g(gn)m(utls)p
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b(the)e(signature)390 1791 y Ff(hash)p FB(:)40 b(The)30
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2167 y Fn>Returns:)40 b FB(the)30 b(0)h(if)e(the)i(hash)e(algorithm)i
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 b(of)g(cert\014cate,)h(or)f(a)g(negativ)m(e)h(v)-5 b(alue)31
 b(on)f(error.)150 3261 y Fu(gn)m(utls)p 483 3261 37 5
 v 55 w(x509)p 786 3261 V 54 w(cert)p 993 3261 V 54 w(imp)s(ort)3350
 3454 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_cert_imp)q
 (t)e Fg(\()p Ff(gn)m(utls)p 1836 3454 28 4 v 41 w(x509)p
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 (cert\014cate.)390 3939 y Ff(format)r FB(:)41 b(One)30
 b(of)g(DER)h(or)f(PEM)390 4072 y(This)i(function)g(will)h(con)m(v)m
 (ert)h(the)e(giv)m(en)i(DER)e(or)h(PEM)f(enco)s(ded)g(Certi\014cate)i
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 4557 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
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 4947 y FB([F]d(unction])-3599 b Fh(int)53 b(gnutls_x509_cert_init)f
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 f(initialized)390 5189 y(This)g(function)g(will)g(initialize)j(an)d
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1044 y(the)31 b(n)m(um)m(b)s(er)e(of)h(certs)h(a)m(v)-5
b(ailable.)390 1170 y Ff(data)p FB(:)41 b(The)30 b(PEM)h(enco)s(ded)f
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(utls)p 2385 1423 V 41 w(cert\014cate)p 2813 1423 V
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b(function)g(will)g(con)m(v)m(ert)i(the)f(giv)m(en)g(PEM)f(enco)s(ded)g
(cert\014cate)j(list)e(to)g(the)g(nativ)m(e)390 1658
y(gn)m(utls)p 636 1658 V 40 w(x509)p 859 1658 V 42 w(crt)p
1012 1658 V 40 w(t)j(format.)109 b(The)53 b(output)g(will)g(b)s(e)g
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(e)i(a)f(header)g(of)g Fs(")p FB(X509)h(CER)-8 b(TIFICA)g(TE)p
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(of)i(cert\014cates)h(read)e(or)g(a)h(negativ)m(e)i(error)d(v)-5
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1211 2313 V 54 w(v)m(erify)3350 2493 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_list_)q(veri)q(fy)f Fg(\)p
Ff(const)31 b(gn)m(utls)p 2336 2493 28 4 v 40 w(x509)p
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b Ff(,)32 b(in)m(t)565 2712 y Fe(CA_list_length)12 b
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2072 2712 V 41 w(crl)p 2214 2712 V 40 w(t)g(*)g Fe(CRL_list)12
b Ff(,)32 b(in)m(t)565 2822 y Fe(CRL_list_length)12 b
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y Ff(cert)p 547 2932 V 41 w(list)r FB(:)41 b(is)31 b(the)f
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3058 y Ff(cert)p 547 3058 V 41 w(list)p 709 3058 V 40
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3437 y Ff(CRL)p 586 3437 V 39 w(list)r FB(:)42 b(holds)30
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(PKIX)390 4270 y(extension.)f(This)25 b(means)g(that)i(only)f(a)g
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(cert\014cate.)390 4397 y(Y)-8 b(ou)23 b(m)m(ust)g(also)h(c)m(hec)m(k)
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1217 4742 V 42 w(status)p 1497 4742 V 41 w(t)g(en)m(umerated)g(elemen)m
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5340 y(v)-5 b(alue.and)31 b(a)f(negativ)m(e)j(v)-5 b(alue)31
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1752 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
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w(x509)p 786 1953 V 54 w(cert)p 993 1953 V 54 w(set)p
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2151 y FB([F)f(unction)]-3599 b Fh(int)53 b(gnutls_x509_cert_set_a)q
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b(alue.)150 2979 y Fu(gn)m(utls)p 483 2979 37 5 v 55
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w(x509)p 786 4251 V 54 w(cert)p 993 4251 V 54 w(set)p
1199 4251 V 54 w(basic)p 1518 4251 V 54 w(constrain)m(ts)3350
4449 y FB([F]d(unction))-3599 b Fh(int)53 b(gnutls_x509_cert_set_b)q
(asic)q(_co)q(nst)q(rai)q(nts)f Fg(\()p Ff(gn)m(utls)p
2621 4449 28 4 v 41 w(x509)p 2845 4449 V 41 w(cert)p 2997
4449 V 40 w(t)565 4559 y Fe(cert)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(ca)12 b Ff(,)31 b(in)m(t)g Fe(pathLenConstraint)12
b Fg(\()390 4669 y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m
(yp)s(e)f Fs(gnutls_x509_cert_t)390 4805 y Ff(ca)p FB(:)42
b(true\1)31 b(or)f(false\0)43 b(Dep)s(ending)30
b(on)g(the)g(Certi\014cate)i(authorit)m(y)f(status.)390
4941 y Ff(pathLenConstrain)m(t)r FB(:)42 b(non-negativ)m(e)32
b(v)-5 b(alues)31 b(indicate)h(maxim)m(um)f(length)g(of)g(path,)g(and)f
(neg-)390 5050 y(ativ)m(e)i(v)-5 b(alues)31 b(indicate)g(that)g(the)g
(pathLenConstrain)m(ts)f(\014eld)g(should)f(not)i(b)s(e)f(presen)m(t.)
390 5186 y(This)g(function)g(will)g(set)h(the)g(basicConstrain)m(ts)g
(cert\014cate)h(extension.)390 5322 y Fn>Returns:)k
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(227)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(cert)p 993 299 V 54 w(set)p 1199 299 V 54 w(ca)p 1368
299 V 53 w(status)3350 483 y FB([F)-8 b(unction])-3599
b Fh(int)53 b(gnutls_x509_cert_set_c)q(a_st)q(atu)q(s)e
Fg(\()p Ff(gn)m(utls)p 2202 483 28 4 v 41 w(x509)p 2426
483 V 42 w(cert)p 2579 483 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
592 y(unsigned)29 b(in)m(t)i Fe(ca)12 b Fg(\()390 702
y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m(yp)s(e)f
Fs(gnutls_x509_cert_t)390 830 y Ff(ca)p FB(:)42 b(true\1)31
b(or)f(false\0)43 b(Dep)s(ending)30 b(on)g(the)g(Certi\014cate)i
(authorit)m(y)f(status.)390 958 y(This)i(function)g(will)h(set)g(the)g
(basicConstrain)m(ts)g(cert\014cate)i(extension.)51
b(Use)34 b Fs(gnutls_x509_)390 1067 y(cert_set_basic_constraint)o(s\())
29 b FB(if)36 b(y)m(ou)f(w)m(an)m(t)i(to)f(con)m(trol)h(the)f
(pathLenConstrain)m(t)f(\014eld)390 1177 y(to)s(o.)390
1305 y Fn>Returns:)h FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5

b(alue.)150 1491 y Fu(gn)m(utls)p 483 1491 37 5 v 55
w(x509)p 786 1491 V 54 w(crt)p 993 1491 V 54 w(set)p
1199 1491 V 54 w(crl)p 1392 1491 V 54 w(dist)p 1644 1491
V 54 w(p)s(oin)m(ts2)3350 1675 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_set_c)q(rl_d)q(ist)q(_po)q(int)q(s2)f
Fg(\()p Ff(gn)m(utls)p 2569 1675 28 4 v 40 w(x509)p 2792
1675 V 42 w(crt)p 2945 1675 V 40 w(t)565 1785 y Fe(crt)12
b Ff(,)31 b(gn)m(utls)p 1035 1785 V 41 w(x509)p 1259
1785 V 41 w(sub)5 b(ject)p 1586 1785 V 40 w(alt)p 1731
1785 V 41 w(name)p 1984 1785 V 40 w(t)31 b Fe(type)12
b Ff(,)31 b(const)g(v)m(oid)g(*)f Fe(data)12 b Ff(,)32
b(unsigned)d(in)m(t)565 1894 y Fe(data_size)12 b Ff(,)33
b(unsigned)c(in)m(t)i Fe(reason_flags)12 b Fg(\())390
2004 y Ff(crt)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m(yp)s(e)f
Fs(gnutls_x509_crt_t)390 2132 y Ff(t)m(yp)s(e)5 b FB(:)41
b(is)30 b(one)h(of)g(the)f(gn)m(utls)p 1399 2132 V 41
w(x509)p 1623 2132 V 41 w(sub)5 b(ject)p 1950 2132 V
40 w(alt)p 2095 2132 V 41 w(name)p 2348 2132 V 40 w(t)31
b(en)m(umerations)390 2260 y Ff(data)p FB(:)41 b(The)30
b(data)h(to)g(b)s(e)f(set)390 2388 y Ff(data)p 572 2388
V 41 w(size)5 b FB(:)41 b(The)30 b(data)h(size)390 2516
y Ff(reason)p 649 2516 V 40 w(\015ags)t FB(:)41 b(rev)m(o)s(cation)32
b(reasons)390 2644 y(This)e(function)g(will)g(set)h(the)g(CRL)f
(distribution)f(p)s(oin)m(ts)h(cert\014cate)j(extension.)390
2772 y Fn>Returns:)j FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 2900 y Fn(Since:)41 b FB(2.6.0)150 3086 y
Fu(gn)m(utls)p 483 3086 37 5 v 55 w(x509)p 786 3086 V
54 w(crt)p 993 3086 V 54 w(set)p 1199 3086 V 54 w(crl)p
1392 3086 V 54 w(dist)p 1644 3086 V 54 w(p)s(oin)m(ts)3350
3270 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crt_set_c)q
(rl_d)q(ist)q(_po)q(int)q(s)e Fg(\()p Ff(gn)m(utls)p
2516 3270 28 4 v 41 w(x509)p 2740 3270 V 41 w(crt)p 2892
3270 V 41 w(t)30 b Fe(crt)12 b Ff(,)565 3380 y(gn)m(utls)p
811 3380 V 41 w(x509)p 1035 3380 V 41 w(sub)5 b(ject)p
1362 3380 V 40 w(alt)p 1507 3380 V 41 w(name)p 1760 3380
V 40 w(t)31 b Fe(type)12 b Ff(,)31 b(const)g(v)m(oid)g(*)f
Fe(data_string)12 b Ff(,)34 b(unsigned)565 3489 y(in)m(t)d
Fe(reason_flags)12 b Fg(\())390 3599 y Ff(crt)r FB(:)41
b(a)31 b(cert\014cate)h(of)f(t)m(yp)s(e)f Fs(gnutls_x509_crt_t)390
3727 y Ff(t)m(yp)s(e)5 b FB(:)41 b(is)30 b(one)h(of)g(the)f(gn)m(utls)p
1399 3727 V 41 w(x509)p 1623 3727 V 41 w(sub)5 b(ject)p
1950 3727 V 40 w(alt)p 2095 3727 V 41 w(name)p 2348 3727
V 40 w(t)31 b(en)m(umerations)390 3855 y Ff(data)p 572
3855 V 41 w(string)8 b FB(:)40 b(The)30 b(data)h(to)g(b)s(e)f(set)390
3983 y Ff(reason)p 649 3983 V 40 w(\015ags)t FB(:)41
b(rev)m(o)s(cation)32 b(reasons)390 4111 y(This)e(function)g(will)g
(set)h(the)g(CRL)f(distribution)f(p)s(oin)m(ts)h(cert\014cate)j

(extension.)390 4239 y Fn>Returns:)j FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 4425 y Fu(gn)m(utls)p
483 4425 37 5 v 55 w(x509)p 786 4425 V 54 w(crt)p 993
4425 V 54 w(set)p 1199 4425 V 54 w(crq)p 1423 4425 V
53 w(extensions)3350 4609 y FB([F)d(unction)]-3599 b
Fh(int)53 b(gnutls_x509_crt_set_c)q(rq_e)q(xte)q(nsi)q(ons)f
Fg(\()p Ff(gn)m(utls)p 2464 4609 28 4 v 41 w(x509)p 2688
4609 V 41 w(crt)p 2840 4609 V 40 w(t)31 b Fe(crt)12 b
Ff(,)565 4718 y(gn)m(utls)p 811 4718 V 41 w(x509)p 1035
4718 V 41 w(crq)p 1200 4718 V 40 w(t)31 b Fe(crq)12 b
Fg(\))390 4828 y Ff(crt)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m(yp)
s(e)f Fs(gnutls_x509_crt_t)390 4956 y Ff(crq)r FB(:)41
b(holds)30 b(a)g(cert\014cate)j(request)390 5084 y(This)d(function)g
(will)g(set)h(extensions)g(from)f(the)h(giv)m(en)g(request)f(to)i(the)e
(cert\014cate.)390 5212 y Fn>Returns:)36 b FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)390 5340 y Fn(Since:)41
b FB(2.8.0)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(228)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crt)p 993 299 V 54 w(set)p 1199 299 V 54 w(crq)3350
495 y FB([F)-8 b(unction)]-3599 b Fh(int)53 b(gnutls_x509_crt_set_c)q
(rq)f Fg(\()p Ff(gn)m(utls)p 1889 495 28 4 v 40 w(x509)p
2112 495 V 42 w(crt)p 2265 495 V 40 w(t)31 b Fe(crt)12
b Ff(,)565 605 y(gn)m(utls)p 811 605 V 41 w(x509)p 1035
605 V 41 w(crq)p 1200 605 V 40 w(t)31 b Fe(crq)12 b Fg(\))390
714 y Ff(crt)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m(yp)s(e)f
Fs(gnutls_x509_crt_t)390 849 y Ff(crq)r FB(:)41 b(holds)30
b(a)g(cert\014cate)j(request)390 983 y(This)28 b(function)g(will)h
(set)h(the)f(name)f(and)g(public)h(parameters)g(as)g(w)m(ell)g(as)g
(the)g(extensions)g(from)390 1093 y(the)22 b(giv)m(en)h(cert\014cate)h
(request)e(to)g(the)g(cert\014cate.)40 b(Only)22 b(RSA)f(k)m(ey)s)h
(are)h(curren)m(tly)f(supp)s(orted.)390 1227 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1426 y Fu(gn)m(utls)p 483 1426 37 5 v 55
w(x509)p 786 1426 V 54 w(crt)p 993 1426 V 54 w(set)p
1199 1426 V 54 w(dn)p 1389 1426 V 54 w(b)m(y)p 1573 1426
V 54 w(oid)3350 1622 y FB([F)d(unction)]-3599 b Fh(int)53
b(gnutls_x509_crt_set_d)q(n_by)q(_oi)q(d)e Fg(\()p Ff(gn)m(utls)p
2202 1622 28 4 v 41 w(x509)p 2426 1622 V 42 w(crt)p 2579
1622 V 40 w(t)31 b Fe(crt)12 b Ff(,)31 b(const)565 1732
y(c)m(har)g(*)g Fe(oid)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(raw_flag)12 b Ff(,)32 b(const)f(v)m(oid)g(*)g Fe(name)12
b Ff(,)31 b(unsigned)f(in)m(t)565 1842 y Fe(sizeof_name)12

b Fg(\))390 1951 y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m
(yp)s(e)f Fs(gnutls_x509 crt_t)390 2085 y Ff(oid)t FB(:)40
b(holds)30 b(an)h(Ob)5 b(ject)30 b(Iden)m(ti\014er)g(in)g(a)h(n)m(ull)f
(terminated)h(string)390 2220 y Ff(ra)m(w)p 540 2220
V 40 w(\015ag)8 b FB(:)41 b(m)m(ust)30 b(b)s(e)g(0,)h(or)f(1)h(if)g
(the)f(data)h(are)g(DER)f(enco)s(ded)390 2354 y Ff(name)5
b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(the)g(name)390
2488 y Ff(sizeof)p 610 2488 V 41 w(name)5 b FB(:)41 b(holds)30
b(the)g(size)i(of)e Fs(name)390 2623 y FB(This)d(function)g(will)h(set)
h(the)f(part)f(of)h(the)g(name)g(of)g(the)g(Certi\014cate)h(sub)5
b(ject,)28 b(sp)s(eci\014ed)f(b)m(y)h(the)390 2732 y(giv)m(en)j(OID.)g
(The)f(input)f(string)i(should)e(b)s(e)h(ASCII)s(I)e(or)j(UTF-8)g(enco)s
(ded.)390 2867 y(Some)42 b(help)s(er)f(macros)i(with)f(p)s(opular)f
(OIDs)h(can)g(b)s(e)g(found)f(in)g(gn)m(utls/x509.h)j(With)f(this)390
2976 y(function)g(y)m(ou)g(can)g(only)g(set)h(the)f(kno)m(wn)f(OIDs.)78
b(Y)-8 b(ou)44 b(can)f(test)h(for)e(kno)m(wn)h(OIDs)f(using)390
3086 y Fs(gnutls_x509_dn_oid_known)o(\(\))p FB(.)33 b(F)-8
b(or)26 b(OIDs)g(that)g(are)g(not)g(kno)m(wn)f(\(b)m(y)h(gn)m(utls)\)g
(y)m(ou)g(should)390 3195 y(prop)s(erly)j(DER)i(enco)s(de)f(y)m(our)h
(data,)g(and)f(call)h(this)g(function)f(with)g Fs(raw_flag)e
FB(set.)390 3330 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 3529 y Fu(gn)m(utls)p
483 3529 37 5 v 55 w(x509)p 786 3529 V 54 w(cert)p 993
3529 V 54 w(set)p 1199 3529 V 54 w(expiration)p 1797
3529 V 54 w(time)3350 3725 y FB([F)d(unction)]-3599 b
Fh(int)53 b(gnutls_x509 crt_set_e)q(xpir)q(ati)q(on_)q(tim)q(e)e
Fg(\(p Ff(gn)m(utls)p 2516 3725 28 4 v 41 w(x509)p 2740
3725 V 41 w(cert)p 2892 3725 V 41 w(t)565 3835 y Fe(cert)12
b Ff(,)31 b(time)p 1023 3835 V 41 w(t)g Fe(exp_time)12
b Fg(\))390 3944 y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)i(of)d(t)m
(yp)s(e)h Fs(gnutls_x509 crt_t)390 4079 y Ff(exp)p 535
4079 V 40 w(time)5 b FB(:)41 b(The)30 b(actual)i(time)390
4213 y(This)e(function)g(will)g(set)h(the)g(time)g(this)f
(Certi\014cate)i(will)f(expire.)390 4347 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 4546 y Fu(gn)m(utls)p 483 4546 37 5 v 55
w(x509)p 786 4546 V 54 w(cert)p 993 4546 V 54 w(set)p
1199 4546 V 54 w(extension)p 1757 4546 V 55 w(b)m(y)p
1942 4546 V 53 w(oid)3350 4743 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_x509 crt_set_e)q(xten)q(sio)q(n_b)q(y_o)q(id)f
Fg(\(p Ff(gn)m(utls)p 2569 4743 28 4 v 40 w(x509)p 2792
4743 V 42 w(cert)p 2945 4743 V 40 w(t)565 4852 y Fe(cert)12
b Ff(,)31 b(const)g(c)m(har)g(*)f Fe(oid)12 b Ff(,)31
b(const)g(v)m(oid)g(*)g Fe(buf)12 b Ff(,)31 b(size)p
2408 4852 V 41 w(t)g Fe(sizeof_buf)12 b Ff(,)33 b(unsigned)c(in)m(t)565
4962 y Fe(critical)12 b Fg(\))390 5071 y Ff(cert)r FB(:)41

b(a)31 b(cert\014cate)h(of)f(t)m(y)p)s(e)f Fs(gnutls_x509 crt_t)390
5206 y Ff(oid)t FB(:)40 b(holds)30 b(an)h(Ob)5 b(ject)30
b(Ide)m(ti\014ed)g(in)g(n)m(ull)g(terminated)h(string)390
5340 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(DER)g
(enco)s(ded)f(data)p eop end
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Ff(sizeof)p 610 299 28 4 v 41 w(buf)17 b FB(:)40 b(holds)30
b(the)h(size)g(of)f Fs(buf)390 456 y Ff(critical)t FB(:)42
b(should)30 b(b)s(e)f(non)h(zero)h(if)g(the)f(extension)h(is)g(to)g(b)s
(e)e(mark)m(ed)i(as)g(critical)390 613 y(This)g(function)g(will)h(set)g
(an)g(the)g(extension,)h(b)m(y)e(the)h(sp)s(eci\014ed)f(OID,)h(in)f
(the)h(cert\014cate.)46 b(The)390 723 y(extension)31
b(data)g(should)e(b)s(e)h(binary)g(data)h(DER)f(enco)s(ded.)390
880 y Fn(Returns:)73 b FB(On)47 b(success,)k Fs(GNUTLS_E_SUCCESS)42
b FB(is)47 b(returned,)k(o)h(therwise)c(a)g(negativ)m(e)i(error)390
990 y(v)-5 b(alue.and)31 b(a)f(negativ)m(e)j(v)-5 b(alue)31
b(in)f(case)h(of)g(an)f(error.)150 1211 y Fu(gn)m(utls)p
483 1211 37 5 v 55 w(x509)p 786 1211 V 54 w(cert)p 993
1211 V 54 w(set)p 1199 1211 V 54 w(issuer)p 1557 1211
V 55 w(dn)p 1748 1211 V 55 w(b)m(y)p 1933 1211 V 53 w(oid)3350
1431 y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509 crt_set_i)q
(ssue)q(r_d)q(n_b)q(y_o)q(id)f Fg(\()p Ff(gn)m(utls)p
2569 1431 28 4 v 40 w(x509)p 2792 1431 V 42 w(cert)p 2945
1431 V 40 w(t)565 1540 y Fe(cert)12 b Ff(,)31 b(const)g(c)m(har)g(*)f
Fe(oid)12 b Ff(,)31 b(unsigned)f(in)m(t)h Fe(raw_flag)12
b Ff(,)32 b(const)f(v)m(oid)g(*)g Fe(name)12 b Ff(,)31
b(unsigned)565 1650 y(in)m(t)g Fe(sizeof_name)12 b Fg(\()390
1760 y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m(y)p)s(e)f
Fs(gnutls_x509 crt_t)390 1917 y Ff(oid)t FB(:)40 b(holds)30
b(an)h(Ob)5 b(ject)30 b(Ide)m(ti\014er)g(in)g(a)h(n)m(ull)f
(terminated)h(string)390 2074 y Ff(ra)m(w)p 540 2074
V 40 w(\015ag)8 b FB(:)41 b(m)m(ust)30 b(b)s(e)g(0,)h(or)f(1)h(if)g
(the)f(data)h(are)g(DER)f(enco)s(ded)390 2231 y Ff(name)5
b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(the)g(name)390
2388 y Ff(sizeof)p 610 2388 V 41 w(name)5 b FB(:)41 b(holds)30
b(the)g(size)i(of)e Fs(name)390 2545 y FB(This)h(function)h(will)g(set)
g(the)h(part)e(of)h(the)g(name)g(of)g(the)h(Certi\014cate)g(issuer,)f
(sp)s(eci\014ed)f(b)m(y)h(the)390 2655 y(giv)m(en)f(OID.)g(The)f(input)
f(string)i(should)e(b)s(e)h(ASCII)s(I)e(or)j(UTF-8)g(enco)s(ded.)390
2812 y(Some)42 b(help)s(er)f(macros)i(with)f(p)s(opular)f(OIDs)h(can)g
(b)s(e)g(found)f(in)g(gn)m(utls/x509.h)j(With)f(this)390
2922 y(function)g(y)m(ou)g(can)g(only)g(set)h(the)f(kno)m(w(n)f(OIDs.)78
b(Y)-8 b(ou)44 b(can)f(test)h(for)e(kno)m(w(n)h(OIDs)f(using)390
3031 y Fs(gnutls_x509_dn_oid_known)o(\()p FB(.)333 b(F)-8
b(or)26 b(OIDs)g(that)g(are)g(not)g(kno)m(w(n)f(\(b)m(y)h(gn)m(utls\))g
(y)m(ou)g(should)390 3141 y(prop)s(erly)j(DER)i(enco)s(de)f(y)m(our)h

(data,)g(and)f(call)h(this)g(function)f(with)g Fs(raw_flag)e
FB(set.)390 3298 y(Normally)k(y)m(ou)f(do)f(not)h(need)g(to)g(call)h
(this)f(function,)f(since)h(the)g(signing)g(op)s(eration)g(will)g(cop)m
(y)390 3408 y(the)g(signer's)f(name)g(as)h(the)g(issuer)e(of)i(the)g
(certi\014cate.)390 3565 y Fn>Returns:)36 b FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 3787 y Fu(gn)m(utls)p
483 3787 37 5 v 55 w(x509)p 786 3787 V 54 w(crt)p 993
3787 V 54 w(set)p 1199 3787 V 54 w(k)m(ey)p 1436 3787
V 53 w(purp)s(ose)p 1911 3787 V 56 w(oid)3350 4006 y
FB([F)d(unction)]-3599 b Fh(int)53 b(gnutls_x509_crt_set_k)q(ey_p)q
(urp)q(ose)q(_oi)q(d)e Fg(\()p Ff(gn)m(utls)p 2516 4006
28 4 v 41 w(x509)p 2740 4006 V 41 w(crt)p 2892 4006 V
41 w(t)565 4116 y Fe(cert)12 b Ff(,)31 b(const)g(v)m(oid)g(*)g
Fe(oid)12 b Ff(,)31 b(unsigned)e(in)m(t)i Fe(critical)12
b Fg(\()390 4225 y Ff(cert)r FB(:)41 b(a)31 b(certi\014cate)i(of)d(t)m
(yp)s(e)h Fs(gnutls_x509_crt_t)390 4383 y Ff(oid)t FB(:)40
b(a)31 b(p)s(oin)m(ter)g(to)g(a)f(n)m(ull)h(terminated)g(string)f(that)
h(holds)f(the)g(OID)390 4540 y Ff(critical)t FB(:)42
b(Whether)31 b(this)f(extension)h(will)g(b)s(e)e(critical)k(or)d(not)
390 4697 y(This)k(function)h(will)h(set)f(the)h(k)m(ey)g(purp)s(ose)d
(OIDs)i(of)h(the)f(Certi\014cate.)56 b(These)35 b(are)h(stored)f(in)390
4806 y(the)26 b(Extended)f(Key)h(Usage)h(extension)f(\(2.5.29.37\))k
(See)c(the)g(GNUTLS)p 2929 4806 V 39 w(KP)p 3101 4806
V 40 w(*)g(de\014nitions)f(for)390 4916 y(h)m(uman)30
b(readable)g(names.)390 5073 y(Subsequen)m(t)f(calls)j(to)f(this)f
(function)g(will)h(app)s(end)e(OIDs)h(to)h(the)g(OID)f(list.)390
5230 y Fn>Returns:)42 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27
b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)
390 5340 y(is)f(returned.)p eop end
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Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crt)p 993 299 V 54 w(set)p 1199 299 V 54 w(k)m(ey)p
1436 299 V 53 w(usage)3350 495 y FB([F)-8 b(unction)]-3599
b Fh(int)53 b(gnutls_x509_crt_set_k)q(ey_u)q(sag)q(e)e
Fg(\()p Ff(gn)m(utls)p 2202 495 28 4 v 41 w(x509)p 2426
495 V 42 w(crt)p 2579 495 V 40 w(t)31 b Fe(cert)12 b Ff(,)565
605 y(unsigned)29 b(in)m(t)i Fe(usage)12 b Fg(\()390
714 y Ff(cert)r FB(:)41 b(a)31 b(certi\014cate)h(of)f(t)m(yp)s(e)f
Fs(gnutls_x509_crt_t)390 849 y Ff(usage)5 b FB(:)41 b(an)31
b(ORed)f(sequence)g(of)h(the)f(GNUTLS)p 2087 849 V 40
w(KEY)p 2328 849 V 40 w(*)h(elemen)m(ts.)390 983 y(This)f(function)g
(will)g(set)h(the)g(k)m(ey)Usage)h(certi\014cate)h(extension.)390
1117 y Fn>Returns:)j FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1316 y Fu(gn)m(utls)p 483 1316 37 5 v 55

w(x509)p 786 1316 V 54 w(cert)p 993 1316 V 54 w(set)p
1199 1316 V 54 w(k)m(ey)3350 1513 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_cert_set_k)q(ey)f Fg(\()p Ff(gn)m(utls)p
1889 1513 28 4 v 40 w(x509)p 2112 1513 V 42 w(cert)p 2265
1513 V 40 w(t)31 b Fe(cert)12 b Ff(,)565 1622 y(gn)m(utls)p
811 1622 V 41 w(x509)p 1035 1622 V 41 w(privk)m(ey)p
1369 1622 V 40 w(t)31 b Fe(key)12 b Fg(\)390 1732 y
Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m(y)p)s(e)f
Fs(gnutls_x509_cert_t)390 1866 y Ff(k)m(ey)8 b FB(:)41
b(holds)30 b(a)h(priv)-5 b(ate)31 b(k)m(ey)390 2001 y(This)d(function)h
(will)g(set)g(the)g(public)f(parameters)h(from)g(the)g(giv)m(en)h(priv)
-5 b(ate)29 b(k)m(ey)h(to)f(the)g(cert\014-)390 2110
y(cate.)42 b(Only)30 b(RSA)g(k)m(ey)s(h(are)g(curren)m(tly)f(supp)s
(orted.)390 2245 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 2443 y Fu(gn)m(utls)p
483 2443 37 5 v 55 w(x509)p 786 2443 V 54 w(cert)p 993
2443 V 54 w(set)p 1199 2443 V 54 w(pro)m(xy)p 1559 2443
V 54 w(dn)3350 2640 y FB([F]d(unction))-3599 b Fh(int)53
b(gnutls_x509_cert_set_p)q(roxy)q(_dn)f Fg(\()p Ff(gn)m(utls)p
2150 2640 28 4 v 41 w(x509)p 2374 2640 V 41 w(cert)p 2526
2640 V 41 w(t)30 b Fe(cert)12 b Ff(,)565 2749 y(gn)m(utls)p
811 2749 V 41 w(x509)p 1035 2749 V 41 w(cert)p 1187 2749
V 40 w(t)30 b Fe(ecert)12 b Ff(,)31 b(unsigned)e(in)m(t)h
Fe(raw_flag)12 b Ff(,)32 b(const)f(v)m(oid)f(*)g Fe(name)12
b Ff(,)31 b(unsigned)565 2859 y(in)m(t)g Fe(sizeof_name)12
b Fg(\)390 2969 y Ff(cert)r FB(:)41 b(a)31 b(gn)m(utls)p
891 2969 V 40 w(x509)p 1114 2969 V 42 w(cert)p 1267 2969
V 40 w(t)g(structure)e(with)h(the)h(new)f(pro)m(xy)g(cert)390
3103 y Ff(ecert)r FB(:)42 b(the)30 b(end)g(en)m(tit)m(y)i
(cert\014cate)h(that)e(will)f(b)s(e)g(issuing)g(the)h(pro)m(xy)390
3237 y Ff(ra)m(w)p 540 3237 V 40 w(\015ag)8 b FB(:)41
b(m)m(ust)30 b(b)s(e)g(,)h(or)f(1)h(if)g(the)f(CN)g(is)h(DER)f(enco)s
(ded)390 3372 y Ff(name)5 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(the)g
(CN)f(name,)h(ma)m(y)f(b)s(e)g(NULL)h(\(but)f(MUST)g(then)g(b)s(e)f
(added)h(later)\)390 3506 y Ff(sizeof)p 610 3506 V 41
w(name)5 b FB(:)41 b(holds)30 b(the)g(size)i(of)e Fs(name)390
3640 y FB(This)e(function)g(will)g(set)h(the)g(sub)5
b(ject)28 b(in)g Fs(cert)g FB(to)h(the)f(end)g(en)m(tit)m(y's)i
Fs(ecert)d FB(sub)5 b(ject)28 b(name,)i(and)390 3750
y(add)e(a)g(single)h(Common)f(Name)g(comp)s(onen)m(t)h
Fs(name)e FB(of)h(size)h Fs(sizeof_name)p FB(.)37 b(This)27
b(corresp)s(onds)390 3859 y(to)j(the)g(required)f(pro)m(xy)h
(cert\014cate)i(naming)d(st)m(yle.)42 b(Note)31 b(that)f(if)g
Fs(name)f FB(is)g Fs(NULL)p FB(,)g(y)m(ou)h(MUST)390
3969 y(set)h(it)g(later)g(b)m(y)f(using)g Fs
(gnutls_x509_cert_set_dn_by_)o(oid)o(\()24 b FB(or)31
b(similar.)390 4103 y Fn>Returns:)36 b FB(On)20 b(success,)j

Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
 (negativ)m(e)h(error)d(v)-5 b(alue.)150 4302 y Fu(gn)m(utls)p
 483 4302 37 5 v 55 w(x509)p 786 4302 V 54 w(crt)p 993
 4302 V 54 w(set)p 1199 4302 V 54 w(pro)m(xy)3350 4499
 y FB([F)d(unction)]-3599 b Fh(int)53 b(gnutls_x509_crt_set_p)q(roxy)f
 Fg(\()p Ff(gn)m(utls)p 1993 4499 28 4 v 41 w(x509)p 2217
 4499 V 41 w(crt)p 2369 4499 V 41 w(t)30 b Fe(crt)12 b
 Ff(.),31 b(in)m(t)565 4608 y Fe(pathLenConstraint)12 b
 Ff(.),35 b(const)c(c)m(har)g(*)g Fe(policyLanguage)12
 b Ff(.),34 b(const)d(c)m(har)g(*)f Fe(policy)12 b Ff(.),565
 4718 y(size)p 712 4718 V 41 w(t)31 b Fe(sizeof_policy)12
 b Fg(\)390 4827 y Ff(crt)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m
 (yp)s(e)f Fs(gnutls_x509_crt_t)390 4962 y Ff(pathLenConstrain)m(t)r
 FB(:)42 b(non-negativ)m(e)32 b(v)-5 b(alues)31 b(indicate)h(maxim)m(um)
 f(length)g(of)g(path,)g(and)f(neg-)390 5071 y(ativ)m(e)i(v)-5
 b(alues)31 b(indicate)g(that)g(the)g(pathLenConstrain)m(ts)f(\014eld)g
 (should)f(not)i(b)s(e)f(presen)m(t.)390 5206 y Ff(p)s(olicyLanguage)5
 b FB(:)42 b(OID)30 b(describing)h(the)f(language)i(of)e
 Fs(policy)p FB(.)390 5340 y Ff(p)s(olicy)8 b FB(:)41
 b(opaque)30 b(b)m(yte)h(arram(y)g(with)f(p)s(olicy)h(language,)h(can)f
 (b)s(e)f Fs(NULL)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(231)390 299 y
 Ff(sizeof)p 610 299 28 4 v 41 w(p)s(olicy)8 b FB(:)41
 b(size)31 b(of)g Fs(policy)p FB(.)390 433 y(This)f(function)g(will)g
 (set)h(the)g(pro)m(xyCertInfo)f(extension.)390 567 y
 Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
 b(alue.)150 765 y Fu(gn)m(utls)p 483 765 37 5 v 55 w(x509)p
 786 765 V 54 w(crt)p 993 765 V 54 w(set)p 1199 765 V
 54 w(serial)3350 961 y FB([F)d(unction)]-3599 b Fh(int)53
 b(gnutls_x509_crt_set_s)q(eria)q(l)f Fg(\()p Ff(gn)m(utls)p
 2046 961 28 4 v 40 w(x509)p 2269 961 V 42 w(crt)p 2422
 961 V 40 w(t)30 b Fe(cert)12 b Ff(.),31 b(const)f(v)m(oid)565
 1070 y(*)h Fe(serial)12 b Ff(.),32 b(size)p 1169 1070
 V 41 w(t)e Fe(serial_size)12 b Fg(\)390 1180 y Ff(cert)r
 FB(:)41 b(a)31 b(cert\014cate)i(of)d(t)m(yp)s(e)h Fs
 (gnutls_x509_crt_t)390 1314 y Ff(serial)t FB(:)41 b(The)30
 b(serial)h(n)m(um)m(b)s(er)390 1448 y Ff(serial)p 603
 1448 V 41 w(size)5 b FB(:)41 b(Holds)31 b(the)g(size)g(of)f(the)h
 (serial)g(\014eld.)390 1581 y(This)g(function)g(will)h(set)g(the)f
 (X.509)j(cert\014cate's)f(serial)f(n)m(um)m(b)s(er.)43
 b(Serial)32 b(is)g(not)f(alw)m(a)m(ys)i(a)f(32)390 1691
 y(or)f(64bit)h(n)m(um)m(b)s(er.)42 b(Some)32 b(CAs)f(use)f(large)j
 (serial)f(n)m(um)m(b)s(ers,)e(th)m(us)h(it)h(ma)m(y)f(b)s(e)g(wise)g
 (to)h(handle)390 1801 y(it)f(as)g(something)f(opaque.)390
 1935 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16

b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2133 y Fu(gn)m(utls)p 483 2133 37 5 v 55
w(x509)p 786 2133 V 54 w(crt)p 993 2133 V 54 w(set)p
1199 2133 V 54 w(sub)7 b(ject)p 1640 2133 V 54 w(alt)p
1836 2133 V 54 w(name)3350 2328 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_set_s)q(ubje)q(ct_)q(alt)q(_na)q(me)f
Fg(\()p Ff(gn)m(utls)p 2569 2328 28 4 v 40 w(x509)p 2792
2328 V 42 w(crt)p 2945 2328 V 40 w(t)565 2438 y Fe(crt)12
b Ff(.)31 b(gn)m(utls)p 1035 2438 V 41 w(x509)p 1259
2438 V 41 w(sub)5 b(ject)p 1586 2438 V 40 w(alt)p 1731
2438 V 41 w(name)p 1984 2438 V 40 w(t)31 b Fe(type)12
b Ff(.)31 b(const)g(v)m(oid)g(*)f Fe(data)12 b Ff(.)32
b(unsigned)d(in)m(t)565 2548 y Fe(data_size)12 b Ff(.)33
b(unsigned)c(in)m(t)i Fe(flags)12 b Fg(\))390 2657 y
Ff(crt)r FB(:)41 b(a)31 b(cert)014cate)h(of)f(t)m(yp)s(e)f
Fs(gnutls_x509_crt_t)390 2791 y Ff(t)m(yp)s(e)5 b FB(:)41
b(is)30 b(one)h(of)g(the)f(gn)m(utls)p 1399 2791 V 41
w(x509)p 1623 2791 V 41 w(sub)5 b(ject)p 1950 2791 V
40 w(alt)p 2095 2791 V 41 w(name)p 2348 2791 V 40 w(t)31
b(en)m(umerations)390 2925 y Ff(data)p FB(:)41 b(The)30
b(data)h(to)g(b)s(e)f(set)390 3059 y Ff(data)p 572 3059
V 41 w(size)5 b FB(:)41 b(The)30 b(size)i(of)e(data)h(to)g(b)s(e)f(set)
390 3193 y Ff(\015ags)t FB(:)39 b(GNUTLS)p 1022 3193
V 40 w(FSAN)p 1308 3193 V 40 w(SET)27 b(to)h(clear)h(previous)e(data)i
(or)e(GNUTLS)p 2930 3193 V 40 w(FSAN)p 3216 3193 V 40
w(APPEND)h(to)390 3302 y(app)s(end.)390 3436 y(This)35
b(function)h(will)g(set)h(the)f(sub)5 b(ject)36 b(alternativ)m(e)i
(name)e(cert)014cate)j(extension.)58 b(It)36 b(can)g(set)390
3546 y(the)31 b(follo)m(wing)g(t)m(yp)s(es:)390 3680
y(&GNUTLS)p 848 3680 V 39 w(SAN)p 1074 3680 V 40 w(DNSNAME:)h(as)e(a)h
(text)g(string)390 3814 y(&GNUTLS)p 848 3814 V 39 w(SAN)p
1074 3814 V 40 w(RF)m(C822NAME:)i(as)e(a)g(text)g(string)390
3948 y(&GNUTLS)p 848 3948 V 39 w(SAN)p 1074 3948 V 40
w(URI:)g(as)f(a)h(text)h(string)390 4082 y(&GNUTLS)p
848 4082 V 39 w(SAN)p 1074 4082 V 40 w(IP)-8 b(ADDRESS:)31
b(as)f(a)h(binary)f(IP)g(address)f(\(4)i(or)g(16)g(b)m(ytes\))390
4216 y(Other)f(v)-5 b(alues)31 b(can)f(b)s(e)g(set)h(as)g(binary)e(v)-5
b(alues)31 b(with)f(the)g(prop)s(er)f(DER)i(enco)s(ding.)390
4350 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)390 4484 y Fn(Since:)41 b FB(2.6.0)150 4682 y
Fu(gn)m(utls)p 483 4682 37 5 v 55 w(x509)p 786 4682 V
54 w(crt)p 993 4682 V 54 w(set)p 1199 4682 V 54 w(sub)7
b(ject)p 1640 4682 V 54 w(alternativ)m(e)p 2270 4682
V 53 w(name)3350 4877 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_x509_crt_set_s)q(ubje)q(ct_)q(alt)q(ern)q(ativ)q(e_n)q(ame)565
4987 y Fg(\()p Ff(gn)m(utls)p 846 4987 28 4 v 41 w(x509)p
1070 4987 V 41 w(crt)p 1222 4987 V 41 w(t)30 b Fe(crt)12

b Ff(,)31 b(gn)m(utls)p 1792 4987 V 41 w(x509)p 2016
4987 V 41 w(sub)5 b(ject)p 2343 4987 V 40 w(alt)p 2488
4987 V 41 w(name)p 2741 4987 V 40 w(t)31 b Fe(type)12
b Ff(,)31 b(const)g(c)m(har)g(*)565 5096 y Fe(data_string)12
b Fg(\)390 5206 y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)h(of)f(t)m
(yp)s(e)f Fs(gnutls_x509_crt_t)390 5340 y Ff(t)m(yp)s(e)5
b FB(:)41 b(is)30 b(one)h(of)g(the)f(gn)m(utls)p 1399
5340 V 41 w(x509)p 1623 5340 V 41 w(sub)5 b(ject)p 1950
5340 V 40 w(alt)p 2095 5340 V 41 w(name)p 2348 5340 V
40 w(t)31 b(en)m(umerations)p eop end
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Ff(data)p 572 299 28 4 v 41 w(string)8 b FB(:)40 b(The)30
b(data)h(to)g(b)s(e)f(set,)h(a)g(zero)g(terminated)g(string)390
429 y(This)22 b(function)h(will)g(set)g(the)g(sub)5 b(ject)23
b(alternativ)m(e)i(name)e(cert\014cate)i(extension.)39
b(This)22 b(function)390 539 y(assumes)30 b(that)h(data)g(can)g(b)s(e)e
(expressed)h(as)h(a)g(n)m(ull)f(terminated)h(string.)390
669 y(The)38 b(name)g(of)g(the)g(function)g(is)g(unfortunate)g(since)g
(it)h(is)f(incosisten)m(t)h(with)f Fs(gnutls_x509_)390
779 y(cert_get_subject_alt_name)o(\(\))p FB(.)390 910
y Fn>Returns:)e FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1101 y Fu(gn)m(utls)p 483 1101 37 5 v 55
w(x509)p 786 1101 V 54 w(cert)p 993 1101 V 54 w(set)p
1199 1101 V 54 w(sub)7 b(ject)p 1640 1101 V 54 w(k)m(ey)p
1877 1101 V 53 w(id)3350 1290 y FB([F)-8 b(unction)]-3599
b Fh(int)53 b(gnutls_x509_crt_set_s)q(ubje)q(ct_)q(key)q(_id)f
Fg(\()p Ff(gn)m(utls)p 2464 1290 28 4 v 41 w(x509)p 2688
1290 V 41 w(cert)p 2840 1290 V 40 w(t)31 b Fe(cert)12
b Ff(,)565 1399 y(const)31 b(v)m(oid)g(*)g Fe(id)12 b
Ff(,)30 b(size)p 1394 1399 V 41 w(t)h Fe(id_size)12 b
Fg(\)390 1509 y Ff(cert)r FB(:)41 b(a)31 b(cert\014cate)i(of)d(t)m
(yp)s(e)h Fs(gnutls_x509_crt_t)390 1639 y Ff(id)t FB(:)40
b(The)30 b(k)m(ey)h(ID)390 1770 y Ff(id)p 472 1770 V
40 w(size)5 b FB(:)41 b(Holds)31 b(the)g(size)g(of)f(the)h(serial)g
(\014eld.)390 1900 y(This)f(function)g(will)g(set)h(the)g(X.509)h
(cert\014cate's)g(sub)5 b(ject)31 b(k)m(ey)g(ID)f(extension.)390
2031 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2222 y Fu(gn)m(utls)p 483 2222 37 5 v 55
w(x509)p 786 2222 V 54 w(cert)p 993 2222 V 54 w(set)p
1199 2222 V 54 w(v)m(ersion)3350 2411 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_x509_crt_set_v)q(ersi)q(on)f Fg(\()p
Ff(gn)m(utls)p 2098 2411 28 4 v 41 w(x509)p 2322 2411
V 41 w(cert)p 2474 2411 V 40 w(t)31 b Fe(cert)12 b Ff(,)31
b(unsigned)565 2520 y(in)m(t)g Fe(version)12 b Fg(\)390

2630 y Ff(cert)r FB(:)41 b(a)31 b(cert)\014cate)h(of)f(t)m(yp)s(e)f
Fs(gnutls_x509_cert_t)390 2761 y Ff(v)m(ersion)p FB(:)41
b(holds)30 b(the)h(v)m(ersion)f(n)m(um)m(b)s(er.)40 b(F)-8
b(or)31 b(X.509v1)i(cert)\014cates)f(m)m(ust)e(b)s(e)g(1.)390
2891 y(This)23 b(function)g(will)h(set)g(the)f(v)m(ersion)h(of)g(the)g
(cert)\014cate.)40 b(This)23 b(m)m(ust)g(b)s(e)g(one)h(for)f(X.509)i(v)
m(ersion)390 3001 y(1,)31 b(and)f(so)g(on.)41 b(Plain)31
b(cert)\014cates)h(without)e(extensions)h(m)m(ust)f(ha)m(v)m(e)i(v)m
(ersion)f(set)g(to)g(one.)390 3131 y(T)-8 b(o)36 b(create)g(w)m
(ell-formed)g(cert)\014cates,)j(y)m(ou)c(m)m(ust)g(sp)s(ecify)g(v)m
(ersion)h(3)f(if)g(y)m(ou)h(use)f(an)m(y)g(cert)\014-390
3241 y(cate)29 b(extensions.)40 b(Extensions)28 b(are)g(created)g(b)m
(y)g(functions)f(suc)m(h)g(as)g Fs(gnutls_x509_cert_set_)390
3350 y(subject_alt_name\(\))e FB(or)31 b Fs(gnutls_x509_cert_set_key)o
(_usa)o(ge\(\))o FB(.)390 3481 y Fn>Returns:)36 b FB(On)20
b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 3672 y Fu(gn)m(utls)p
483 3672 37 5 v 55 w(x509)p 786 3672 V 54 w(cert)p 993
3672 V 54 w(sign2)3350 3861 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_x509_cert_sign2)f Fg(\()p Ff(gn)m(utls)p
1784 3861 28 4 v 41 w(x509)p 2008 3861 V 41 w(cert)p 2160
3861 V 41 w(t)30 b Fe(cert)12 b Ff(,)31 b(gn)m(utls)p
2730 3861 V 41 w(x509)p 2954 3861 V 41 w(cert)p 3106 3861
V 40 w(t)565 3970 y Fe(issuer)12 b Ff(,)32 b(gn)m(utls)p
1192 3970 V 40 w(x509)p 1415 3970 V 42 w(privk)m(ey)p
1750 3970 V 40 w(t)f Fe(issuer_key)12 b Ff(,)33 b(gn)m(utls)p
2686 3970 V 40 w(digest)p 2958 3970 V 41 w(algorithm)p
3382 3970 V 41 w(t)e Fe(dig)12 b Ff(,)565 4080 y(unsigned)29
b(in)m(t)i Fe(flags)12 b Fg(\()390 4190 y Ff(cert)r FB(:)41
b(a)31 b(cert)\014cate)h(of)f(t)m(yp)s(e)f Fs(gnutls_x509_cert_t)390
4320 y Ff(issuer)7 b FB(:)40 b(is)30 b(the)h(cert)\014cate)h(of)f(the)f
(cert)\014cate)j(issuer)390 4451 y Ff(issuer)p 620 4451
V 39 w(k)m(ey)8 b FB(:)42 b(holds)30 b(the)g(issuer's)g(priv)-5
b(ate)31 b(k)m(ey)390 4581 y Ff(dig)8 b FB(:)41 b(The)30
b(message)h(digest)g(to)g(use,)g Fs(GNUTLS_DIG_SHA1)26
b FB(is)k(a)h(safe)g(c)m(hoice)390 4712 y Ff(\015ags)t
FB(:)41 b(m)m(ust)30 b(b)s(e)g(0)390 4842 y(This)g(function)h(will)g
(sign)g(the)g(cert)\014cate)i(with)e(the)g(issuer's)f(priv)-5
b(ate)32 b(k)m(ey)-8 b(,)32 b(and)f(will)g(cop)m(y)h(the)390
4952 y(issuer's)e(information)h(in)m(to)g(the)f(cert)\014cate.)390
5082 y(This)43 b(m)m(ust)g(b)s(e)g(the)h(last)g(step)g(in)f(a)h
(cert)\014cate)h(generation)g(since)f(all)g(the)g(previously)f(set)390
5192 y(parameters)31 b(are)f(no)m(w)h(signed.)390 5322
y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(233)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(crt)p 993 299 V 54 w(sign)3350 492 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_sign)f Fg(\())p Ff(gn)m(utls)p
1732 492 28 4 v 40 w(x509)p 1955 492 V 42 w(crt)p 2108
492 V 40 w(t)31 b Fe(crt)12 b Ff(,)31 b(gn)m(utls)p 2678
492 V 40 w(x509)p 2901 492 V 42 w(crt)p 3054 492 V 40
w(t)565 602 y Fe(issuer)12 b Ff(,)32 b(gn)m(utls)p 1192
602 V 40 w(x509)p 1415 602 V 42 w(privk)m(ey)p 1750 602
V 40 w(t)f Fe(issuer_key)12 b Fg(\())390 711 y Ff(crt)r
FB(:)41 b(a)31 b(certi\014cate)h(of)f(t)m(y)p)s(e)f Fs
(gnutls_x509_crt_t)390 844 y Ff(issuer)7 b FB(:)40 b(is)30
b(the)h(certi\014cate)h(of)f(the)f(certi\014cate)j(issuer)390
977 y Ff(issuer)p 620 977 V 39 w(k)m(ey)8 b FB(:)42 b(holds)30
b(the)g(issuer's)g(priv)-5 b(ate)31 b(k)m(ey)390 1109
y(This)h(function)h(is)f(the)h(same)h(a)f Fs(gnutls_x509_crt_sign2(\))
26 b FB(with)33 b(no)g(\015ags,)g(and)g(SHA1)g(as)390
1219 y(the)e(hash)e(algorithm.)390 1352 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1548 y Fu(gn)m(utls)p 483 1548 37 5 v 55
w(x509)p 786 1548 V 54 w(crt)p 993 1548 V 54 w(v)m(erify)p
1351 1548 V 54 w(data)3350 1741 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_crt_verif)q(y_da)q(ta)f Fg(\())p
Ff(gn)m(utls)p 2098 1741 28 4 v 41 w(x509)p 2322 1741
V 41 w(crt)p 2474 1741 V 40 w(t)31 b Fe(crt)12 b Ff(,)31
b(unsigned)565 1850 y(in)m(t)g Fe(flags)12 b Ff(,)32
b(const)e(gn)m(utls)p 1516 1850 V 41 w(datum)p 1815 1850
V 39 w(t)h(*)g Fe(data)12 b Ff(,)31 b(const)g(gn)m(utls)p
2750 1850 V 40 w(datum)p 3048 1850 V 40 w(t)g(*)f Fe(signature)12
b Fg(\())390 1960 y Ff(crt)r FB(:)41 b(Holds)31 b(the)f(certi\014cate)
390 2093 y Ff(\015ags)t FB(:)41 b(should)29 b(b)s(e)h(0)h(for)f(no)m(w)
390 2225 y Ff(data)p FB(:)41 b(holds)30 b(the)h(data)g(to)g(b)s(e)f
(signed)390 2358 y Ff(signature)5 b FB(:)41 b(con)m(tains)32
b(the)e(signature)390 2491 y(This)d(function)h(will)h(v)m(erify)g(the)f
(giv)m(en)h(signed)g(data,)g(using)f(the)g(parameters)h(from)f(the)g
(certi\014-)390 2600 y(cate.)390 2733 y Fn>Returns:)40
b FB(In)30 b(case)h(of)g(a)g(v)m(eri\014cation)h(failure)e(0)h(is)f
(returned,)g(and)g(1)g(on)h(success.)150 2929 y Fu(gn)m(utls)p
483 2929 37 5 v 55 w(x509)p 786 2929 V 54 w(crt)p 993
2929 V 54 w(v)m(erify)p 1351 2929 V 54 w(hash)3350 3122
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_crt_verif)q(y_ha)
q(sh)f Fg(\())p Ff(gn)m(utls)p 2098 3122 28 4 v 41 w(x509)p
2322 3122 V 41 w(crt)p 2474 3122 V 40 w(t)31 b Fe(crt)12
b Ff(,)31 b(unsigned)565 3232 y(in)m(t)g Fe(flags)12
b Ff(,)32 b(const)e(gn)m(utls)p 1516 3232 V 41 w(datum)p
1815 3232 V 39 w(t)h(*)g Fe(hash)12 b Ff(,)31 b(const)g(gn)m(utls)p
2750 3232 V 40 w(datum)p 3048 3232 V 40 w(t)g(*)f Fe(signature)12

b Fg(\))390 3341 y Ff(cert)r FB(:)41 b(Holds)31 b(the)f(cert\014cate)
390 3474 y Ff(\015ags)t FB(:)41 b(should)29 b(b)s(e)h(0)h(for)f(no)m(w)
390 3607 y Ff(hash)p FB(:)40 b(holds)30 b(the)g(hash)g(digest)h(to)g(b)
s(e)f(v)m(eri\014ed)390 3739 y Ff(signature)5 b FB(:)41
b(con)m(tains)32 b(the)e(signature)390 3872 y(This)i(function)g(will)h
(v)m(erify)g(the)f(giv)m(en)i(signed)e(digest,)i(using)e(the)h
(parameters)g(from)f(the)g(ser-)390 3982 y(ti\014cate.)390
4114 y Fn(Returns:)40 b FB(In)30 b(case)h(of)g(a)g(v)m(eri\014cation)h
(failure)e(0)h(is)f(returned,)g(and)g(1)g(on)h(success.)150
4310 y Fu(gn)m(utls)p 483 4310 37 5 v 55 w(x509)p 786
4310 V 54 w(cert)p 993 4310 V 54 w(v)m(erify)3350 4503
y FB([F]-8 b(unction])-3599 b Fh(int)53 b(gnutls_x509_cert_verif)q(y)e
Fg(\()p Ff(gn)m(utls)p 1836 4503 28 4 v 41 w(x509)p 2060
4503 V 41 w(cert)p 2212 4503 V 41 w(t)30 b Fe(cert)12
b Ff(,)32 b(const)565 4613 y(gn)m(utls)p 811 4613 V 41
w(x509)p 1035 4613 V 41 w(cert)p 1187 4613 V 40 w(tf(*)g
Fe(CA_list)12 b Ff(,)32 b(in)m(t)f Fe(CA_list_length)12
b Ff(,)34 b(unsigned)29 b(in)m(t)i Fe(flags)12 b Ff(,)565
4723 y(unsigned)29 b(in)m(t)i(*)g Fe(verify)12 b Fg(\))390
4832 y Ff(cert)r FB(:)41 b(is)31 b(the)f(cert\014cate)j(to)e(b)s(e)f
(v)m(eri\014ed)390 4965 y Ff(CA)p 530 4965 V 40 w(list)r
FB(:)41 b(is)31 b(one)f(cert\014cate)j(that)e(is)f(considered)g(to)h
(b)s(e)f(trusted)g(one)390 5098 y Ff(CA)p 530 5098 V
40 w(list)p 691 5098 V 41 w(length)p FB(:)41 b(holds)30
b(the)g(n)m(um)m(b)s(er)f(of)i(CA)f(cert\014cate)i(in)e(CA)p
2697 5098 V 40 w(list)390 5230 y Ff(\015ags)t FB(:)51
b(Flags)37 b(that)f(ma)m(y)g(b)s(e)e(used)h(to)h(c)m(hange)h(the)e(v)m
(eri\014cation)i(algorithm.)57 b(Use)36 b(OR)f(of)h(the)390
5340 y(gn)m(utls)p 636 5340 V 40 w(cert\014cate)p 1063
5340 V 43 w(v)m(erify)p 1328 5340 V 40 w(\015ags)31 b(en)m(umerations.)
p eop end

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b(F)-8 b(unction)31 b(Reference)2237 b(234)390 299 y
Ff(v)m(erify)8 b FB(:)41 b(will)31 b(hold)f(the)g(cert\014cate)j(v)m
(eri\014cation)f(output.)390 439 y(This)d(function)h(will)h(try)f(to)h
(v)m(erify)g(the)f(giv)m(en)h(cert\014cate)h(and)e(return)f(its)i
(status.)41 b(The)29 b(v)m(eri\014-)390 548 y(cation)j(output)e(in)g
(this)g(functions)g(cannot)h(b)s(e)f(GNUTLS)p 2445 548
28 4 v 39 w(CER)-8 b(T)p 2737 548 V 40 w(NOT)p 2982 548
V 39 w(V)e(ALID.)390 688 y Fn(Returns:)73 b FB(On)47
b(success,)k Fs(GNUTLS_E_SUCCESS)42 b FB(is)47 b(returned,)k(otherwise)
c(a)g(negativ)m(e)i(error)390 798 y(v)-5 b(alue.and)31
b(a)f(negativ)m(e)j(v)-5 b(alue)31 b(in)f(case)h(of)g(an)f(error.)150
1003 y Fu(gn)m(utls)p 483 1003 37 5 v 55 w(x509)p 786
1003 V 54 w(dn)p 976 1003 V 55 w(deinit)3350 1205 y FB([F]-8
b(unction])-3599 b Fh(void)54 b(gnutls_x509_dn_deinit)d
Fg(\()p Ff(gn)m(utls)p 1836 1205 28 4 v 41 w(x509)p 2060

1205 V 41 w(dn)p 2203 1205 V 39 w(t)31 b Fe(dn)12 b Fg(\)390
1314 y Ff(dn)p FB(:)40 b(a)30 b(DN)h(opaque)g(ob)5 b(ject)31
b(p)s(oin)m(ter.)390 1454 y(This)f(function)g(deallo)s(cates)i(the)f
(DN)g(ob)5 b(ject)31 b(as)g(returned)e(b)m(y)h Fs
(gnutls_x509_dn_import(\))p FB(.)390 1594 y Fn(Since:)41
b FB(2.4.0)150 1799 y Fu(gn)m(utls)p 483 1799 37 5 v
55 w(x509)p 786 1799 V 54 w(dn)p 976 1799 V 55 w(exp)s(ort)3350
2001 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_dn_export)f
Fg(\)p Ff(gn)m(utls)p 1784 2001 28 4 v 41 w(x509)p 2008
2001 V 41 w(dn)p 2151 2001 V 39 w(t)31 b Fe(dn)12 b Ff(,)565
2110 y(gn)m(utls)p 811 2110 V 41 w(x509)p 1035 2110 V
41 w(crt)p 1187 2110 V 40 w(fm)m(t)p 1363 2110 V 41 w(t)30
b Fe(format)12 b Ff(,)32 b(v)m(oid)f(*)g Fe(output_data)12
b Ff(,)33 b(size)p 2906 2110 V 41 w(t)e(*)565 2220 y
Fe(output_data_size)12 b Fg(\)390 2330 y Ff(dn)p FB(:)40
b(Holds)30 b(the)h(opaque)f(DN)h(ob)5 b(ject)390 2470
y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 2609 y Ff(output)p
664 2609 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(a)e(DN)h(PEM)g
(or)f(DER)g(enco)s(ded)390 2749 y Ff(output)p 664 2749
V 40 w(data)p 880 2749 V 40 w(size)5 b FB(:)49 b(holds)34
b(the)g(size)h(of)f(output)p 2093 2749 V 39 w(data)h(\(and)f(will)g(b)s
(e)f(replaced)i(b)m(y)e(the)i(actual)390 2859 y(size)c(of)g
(parameters\))390 2999 y(This)f(function)g(will)g(exp)s(ort)g(the)h(DN)
g(to)g(DER)g(or)f(PEM)g(format.)390 3139 y(If)23 b(the)g(bu\013er)f
(pro)m(vided)g(is)h(not)h(long)f(enough)g(to)h(hold)f(the)g(output,)h
(then)f(*)p Fs(output_data_size)390 3248 y FB(is)30 b(up)s(dated)f(and)
h Fs(GNUTLS_E_SHORT_MEMORY_BUF)o(FER)24 b FB(will)31
b(b)s(e)e(returned.)390 3388 y(If)h(the)g(structure)g(is)h(PEM)f(enco)s
(ded,)g(it)h(will)g(ha)m(v)m(e)h(a)e(header)h(of)h Fs(")p
FB(BEGIN)h(NAME)p Fs(")p FB(.)390 3528 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3733 y Fu(gn)m(utls)p 483 3733 37 5 v 55
w(x509)p 786 3733 V 54 w(dn)p 976 3733 V 55 w(get)p 1196
3733 V 54 w(rdn)p 1436 3733 V 54 w(a)m(v)e(a)3350 3935
y FB([F)f(unction)]-3599 b Fh(int)53 b(gnutls_x509_dn_get_rd)q(n_av)q
(a)f Fg(\)p Ff(gn)m(utls)p 2046 3935 28 4 v 40 w(x509)p
2269 3935 V 42 w(dn)p 2413 3935 V 39 w(t)30 b Fe(dn)12
b Ff(,)31 b(in)m(t)g Fe(irdn)12 b Ff(,)565 4045 y(in)m(t)31
b Fe(iava)12 b Ff(,)31 b(gn)m(utls)p 1226 4045 V 41 w(x509)p
1450 4045 V 41 w(a)m(v)-5 b(a)p 1621 4045 V 41 w(st)31
b(*)g Fe(ava)12 b Fg(\)390 4154 y Ff(dn)p FB(:)40 b(input)29
b(v)-5 b(ariable)31 b(with)f(opaque)h(DN)g(p)s(oin)m(ter)390
4294 y Ff(irdn)p FB(:)40 b(index)29 b(of)i(RDN)390 4434
y Ff(ia)m(v)-5 b(a)p FB(:)42 b(index)30 b(of)h(A)-10
b(V)g(A.)390 4574 y Ff(a)m(v)-5 b(a)p FB(:)42 b(P)m(oin)m(ter)32
b(to)f(structure)f(whic)m(h)g(will)g(hold)h(output)e(information.)390

4714 y(Get)i(p)s(oin)m(ters)g(to)g(data)g(within)f(the)g(DN.)390
 4854 y(Note)k(that)g Fs(ava)e FB(will)h(con)m(tain)i(p)s(oin)m(ters)e
 (in)m(to)h(the)f Fs(dn)f FB(structure,)i(so)f(y)m(ou)g(should)f(not)i
 (mo)s(dify)390 4963 y(an)m(y)41 b(data)g(or)g(deallo)s(cate)i(it.)71
 b(Note)42 b(also)g(that)f(the)f(DN)i(in)e(turn)f(p)s(oin)m(ts)i(in)m
 (to)g(the)g(original)390 5073 y(cert\014cate)32 b(structure,)e(and)f
 (th)m(us)h(y)m(ou)g(ma)m(y)g(not)g(deallo)s(cate)j(the)d(cert\014cate)
 i(and)d(con)m(tin)m(ue)i(to)390 5182 y(access)h Fs(dn)p
 FB(.)390 5322 y Fn>Returns:)40 b FB>Returns)30 b(0)h(on)f(success,)h
 (or)f(an)g(error)g(co)s(de.)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(235)150 299 y
 Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
 w(dn)p 976 299 V 55 w(imp)s(ort)3350 492 y FB([F]-8 b(unction))-3599
 b Fh(int)53 b(gnutls_x509_dn_import)f Fg(\()p Ff(gn)m(utls)p
 1784 492 28 4 v 41 w(x509)p 2008 492 V 41 w(dn)p 2151
 492 V 39 w(t)31 b Fe(dn)12 b Ff(,)31 b(const)565 601
 y(gn)m(utls)p 811 601 V 41 w(datum)p 1110 601 V 39 w(t)g(*)g
 Fe(data)12 b Fg(\()390 711 y Ff(dn)p FB(:)40 b(the)30
 b(structure)g(that)h(will)g(hold)f(the)g(imp)s(orted)g(DN)390
 843 y Ff(data)p FB(:)41 b(should)30 b(con)m(tain)i(a)e(DER)h(enco)s
 (ded)f(RDN)h(sequence)390 976 y(This)e(function)g(parses)g(an)g(RDN)h
 (sequence)g(and)f(stores)g(the)h(result)f(to)i(a)e Fs(gnutls_x509_dn_t)
 390 1085 y FB(structure.)57 b(The)35 b(structure)g(m)m(ust)h(ha)m(v)m
 (e)h(b)s(een)e(initialized)j(with)d Fs(gnutls_x509_dn_init(\))p
 FB(.)390 1195 y(Y)-8 b(ou)31 b(ma)m(y)g(use)f Fs
 (gnutls_x509_dn_get_rdn_a)o(va\())24 b FB(to)31 b(deco)s(de)f(the)h
 (DN.)390 1327 y Fn>Returns:)36 b FB(On)20 b(success,)j
 Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
 (negativ)m(e)h(error)d(v)-5 b(alue.)390 1460 y Fn(Since:)41
 b FB(2.4.0)150 1655 y Fu(gn)m(utls)p 483 1655 37 5 v
 55 w(x509)p 786 1655 V 54 w(dn)p 976 1655 V 55 w(init)3350
 1848 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_dn_init)e
 Fg(\()p Ff(gn)m(utls)p 1679 1848 28 4 v 41 w(x509)p 1903
 1848 V 42 w(dn)p 2047 1848 V 39 w(t)30 b(*)h Fe(dn)12
 b Fg(\()390 1957 y Ff(dn)p FB(:)40 b(the)30 b(ob)5 b(ject)31
 b(to)h(b)s(e)d(initialized)390 2090 y(This)h(function)g(initializes)i
 (a)f Fs(gnutls_x509_dn_t)26 b FB(structure.)390 2222
 y(The)k(ob)5 b(ject)31 b(returned)e(m)m(ust)i(b)s(e)e(deallo)s(cated)k
 (using)c Fs(gnutls_x509_dn_deinit(\))p FB(.)390 2355
 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
 b(alue.)390 2487 y Fn(Since:)41 b FB(2.4.0)150 2682 y
 Fu(gn)m(utls)p 483 2682 37 5 v 55 w(x509)p 786 2682 V
 54 w(dn)p 976 2682 V 55 w(oid)p 1194 2682 V 54 w(kno)m(wn)3350
 2875 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_x509_dn_oid_kn)q
 (own)f Fg(\()p Ff(const)31 b(c)m(har)g(*)g Fe(oid)12

b Fg(\))390 2985 y Ff(oid)t FB(:)40 b(holds)30 b(an)h(Ob)5
b(ject)30 b(Iden)m(ti\014er)g(in)g(a)h(n)m(ull)f(terminated)h(string)
390 3117 y(This)h(function)g(will)h(inform)f(ab)s(out)g(kno)m(wn)g(DN)h
(OIDs.)47 b(This)32 b(is)h(useful)f(since)h(functions)f(lik)m(e)390
3227 y Fs(gnutls_x509_cert_set_dn_b)o(y_oi)o(d(\))17
b FB(use)23 b(the)h(information)g(on)f(kno)m(wn)h(OIDs)f(to)h(prop)s
(erly)390 3336 y(enco)s(de)34 b(their)f(input.)49 b(Ob)5
b(ject)34 b(Iden)m(ti\014ers)f(that)h(are)g(not)g(kno)m(wn)f(are)h(not)
g(enco)s(ded)f(b)m(y)g(these)390 3446 y(functions,c(and)f(their)h
(input)f(is)h(stored)g(directly)g(in)m(to)h(the)f(ASN.1)h(structure.)39
b(In)28 b(that)i(case)g(of)390 3555 y(unkno)m(wn)f(OIDs,)h(y)m(ou)h(ha)
m(v)m(e)h(the)e(resp)s(onsibilit)m(y)h(of)f(DER)h(enco)s(ding)f(y)m
(our)g(data.)390 3688 y Fn>Returns:)40 b FB(1)31 b(on)f(kno)m(wn)g
(OIDs)g(and)g(0)h(otherwise.)150 3883 y Fu(gn)m(utls)p
483 3883 V 55 w(x509)p 786 3883 V 54 w(privk)m(ey)p 1240
3883 V 54 w(cp)m(y)3350 4076 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_x509_privkey_c)q(py)f Fg(\()p Ff(gn)m(utls)p
1889 4076 28 4 v 40 w(x509)p 2112 4076 V 42 w(privk)m(ey)p
2447 4076 V 40 w(t)31 b Fe(dst)12 b Ff(,)565 4185 y(gn)m(utls)p
811 4185 V 41 w(x509)p 1035 4185 V 41 w(privk)m(ey)p
1369 4185 V 40 w(t)31 b Fe(src)12 b Fg(\))390 4295 y
Ff(dst)r FB(:)40 b(The)30 b(destination)h(k)m(ey)-8 b(,)32
b(whic)m(h)e(should)g(b)s(e)f(initialized.)390 4427 y
Ff(src)6 b FB(:)40 b(The)30 b(source)g(k)m(ey)390 4560
y(This)g(function)g(will)g(cop)m(y)h(a)g(priv)-5 b(ate)31
b(k)m(ey)g(from)f(source)h(to)g(destination)g(k)m(ey)-8
b(,)390 4692 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 4888 y Fu(gn)m(utls)p
483 4888 37 5 v 55 w(x509)p 786 4888 V 54 w(privk)m(ey)p
1240 4888 V 54 w(deinit)3350 5080 y FB([F]d(unction])-3599
b Fh(void)54 b(gnutls_x509_privkey_dein)q(it)e Fg(\()p
Ff(gn)m(utls)p 2098 5080 28 4 v 41 w(x509)p 2322 5080
V 41 w(privk)m(ey)p 2656 5080 V 40 w(t)31 b Fe(key)12
b Fg(\))390 5190 y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(b)s
(e)f(initialized)390 5322 y(This)g(function)g(will)g(deinitialize)j(a)e
(priv)-5 b(ate)31 b(k)m(ey)g(structure.)p eop end
%%Page: 236 242
TeXDict begin 236 241 bop 150 -116 a FB(Chapter)30 b(9):41
b(F)-8 b(unction)31 b(Reference)2237 b(236)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(privk)m(ey)p 1240 299 V 54 w(exp)s(ort)p 1645 299 V
54 w(dsa)p 1875 299 V 55 w(ra)m(w)3350 488 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_x509_privkey_e)q(xpor)q(t_d)q
(sa_)q(raw)f Fg(\()p Ff(gn)m(utls)p 2464 488 28 4 v 41
w(x509)p 2688 488 V 41 w(privk)m(ey)p 3022 488 V 40 w(t)565
598 y Fe(key)12 b Ff(,)31 b(gn)m(utls)p 1035 598 V 41
w(datum)p 1334 598 V 39 w(t)g(*)g Fe(p)12 b Ff(,)30 b(gn)m(utls)p

1874 598 V 40 w(datum)p 2172 598 V 40 w(t)h(*)f Fe(q)12
b Ff(,)31 b(gn)m(utls)p 2713 598 V 40 w(datum)p 3011
598 V 40 w(t)f(*)h Fe(g)12 b Ff(,)565 708 y(gn)m(utls)p
811 708 V 41 w(datum)p 1110 708 V 39 w(t)31 b(*)g Fe(y)12
b Ff(,)30 b(gn)m(utls)p 1650 708 V 40 w(datum)p 1948
708 V 40 w(t)h(*)f Fe(x)12 b Fg(\)390 817 y Ff(k)m(ey)c
FB(:)41 b(a)31 b(structure)f(that)h(holds)f(the)g(DSA)h(parameters)390
948 y Ff(p)s FB(:)40 b(will)31 b(hold)f(the)g(p)390 1079
y Ff(q)r FB(:)41 b(will)30 b(hold)g(the)h(q)390 1210
y Ff(g)8 b FB(:)41 b(will)31 b(hold)f(the)g(g)390 1341
y Ff(y)8 b FB(:)40 b(will)31 b(hold)f(the)h(y)390 1472
y Ff(x)6 b FB(:)41 b(will)31 b(hold)f(the)g(x)390 1603
y(This)e(function)g(will)h(exp)s(ort)f(the)h(DSA)g(priv)-5
b(ate)29 b(k)m(ey's)g(parameters)g(found)e(in)i(the)f(giv)m(en)i
(struc-)390 1712 y(ture.)38 b(The)21 b(new)h(parameters)h(will)f(b)s(e)
g(allo)s(cated)i(using)d Fs(gnutls_malloc\(\))d FB(and)k(will)g(b)s(e)g
(stored)390 1822 y(in)30 b(the)h(appropriate)f(datum.)390
1953 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 2145 y Fu(gn)m(utls)p 483 2145 37 5 v 55
w(x509)p 786 2145 V 54 w(privk)m(ey)p 1240 2145 V 54
w(exp)s(ort)p 1645 2145 V 54 w(pk)m(cs8)3350 2334 y FB([F]d(unction)]
-3599 b Fh(int)53 b(gnutls_x509_privkey_e)q(xpor)q(t_p)q(kcs)q(8)e
Fg(\()p Ff(gn)m(utls)p 2359 2334 28 4 v 41 w(x509)p 2583
2334 V 41 w(privk)m(ey)p 2917 2334 V 41 w(t)565 2444
y Fe(key)12 b Ff(,)31 b(gn)m(utls)p 1035 2444 V 41 w(x509)p
1259 2444 V 41 w(cert)p 1411 2444 V 40 w(fm)m(t)p 1587
2444 V 41 w(t)f Fe(format)12 b Ff(,)32 b(const)f(c)m(har)g(*)g
Fe(password)12 b Ff(,)32 b(unsigned)d(in)m(t)565 2553
y Fe(flags)12 b Ff(,)32 b(v)m(oid)f(*)f Fe(output_data)12
b Ff(,)34 b(size)p 1956 2553 V 41 w(t)c(*)h Fe(output_data_size)12
b Fg(\)390 2663 y Ff(k)m(ey)c FB(:)41 b(Holds)31 b(the)f(k)m(ey)390
2794 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 2925 y Ff(passw)m(ord)t
FB(:)40 b(the)30 b(passw)m(ord)g(that)h(will)g(b)s(e)e(used)h(to)h
(encrypt)f(the)h(k)m(ey)-8 b(.)390 3056 y Ff(\015ags)t
FB(:)41 b(an)30 b(ORed)g(sequence)h(of)f(gn)m(utls)p
1748 3056 V 40 w(pk)m(cs)p 1960 3056 V 41 w(encrypt)p
2302 3056 V 39 w(\015ags)p 2518 3056 V 41 w(t)390 3187
y Ff(output)p 664 3187 V 40 w(data)p FB(:)41 b(will)31
b(con)m(tain)h(a)e(priv)-5 b(ate)31 b(k)m(ey)g(PEM)g(or)f(DER)h(enco)s
(ded)390 3318 y Ff(output)p 664 3318 V 40 w(data)p 880
3318 V 40 w(size)5 b FB(:)49 b(holds)34 b(the)g(size)h(of)f(output)p
2093 3318 V 39 w(data)h(\(and)f(will)g(b)s(e)f(replaced)i(b)m(y)e(the)i
(actual)390 3427 y(size)c(of)g(parameters\))390 3558
y(This)c(function)h(will)g(exp)s(ort)g(the)g(priv)-5
b(ate)29 b(k)m(ey)g(to)g(a)f(PK)m(CS8)g(structure.)39
b(Both)29 b(RSA)e(and)h(DSA)390 3668 y(k)m(ey)s)i(can)h(b)s(e)e(exp)s

(orted.)40 b(F)-8 b(or)31 b(DSA)f(k)m(ey)s(g(w)m(e)g(use)g(PK)m(CS)f
Fs(11)g FB(de\014nitions.)40 b(If)30 b(the)g(\015ags)g(do)g(not)390
3777 y(sp)s(ecify)g(the)h(encryption)f(cipher,)g(then)g(the)h(default)f
(3DES)h(\(PBES2\))g(will)g(b)s(e)e(used.)390 3908 y(The)48
b Fs(password)e FB(can)i(b)s(e)g(either)h(ASCII)s(I)d(or)j(UTF-8)g(in)f
(the)g(default)h(PBES2)f(encryption)390 4018 y(sc)m(hemas,)31
b(or)g(ASCII)s(I)d(for)j(the)f(PK)m(CS12)h(sc)m(hemas.)390
4149 y(If)f(the)h(bu\013er)f(pro)m(vided)g(is)g(not)h(long)h(enough)e
(to)h(hold)g(the)f(output,)h(then)f(*output)p 3357 4149
V 40 w(data)p 3573 4149 V 41 w(size)390 4258 y(is)g(up)s(dated)f(and)h
(GNUTLS)p 1401 4258 V 40 w(E)p 1503 4258 V 40 w(SHOR)-8
b(T)p 1858 4258 V 39 w(MEMOR)g(Y)p 2323 4258 V 41 w(BUFFER)31
b(will)g(b)s(e)f(returned.)390 4389 y(If)39 b(the)g(structure)f(is)h
(PEM)g(enco)s(ded,)i(it)f(will)f(ha)m(v)m(e)h(a)g(header)f(of)g
Fs(")p FB(BEGIN)g(ENCR)-8 b(YPTED)390 4499 y(PRIV)e(A)i(TE)30
b(KEY)p Fs(")g FB(or)g Fs(")p FB(BEGIN)h(PRIV)-10 b(A)i(TE)30
b(KEY)p Fs(")g FB(if)g(encryption)g(is)h(not)f(used.)390
4630 y Fn(Return)g(v)-5 b(alue:)41 b FB(In)30 b(case)h(of)g(failure)f
(a)h(negativ)m(e)i(v)-5 b(alue)30 b(will)h(b)s(e)f(returned,)f(and)h(0)
h(on)f(success.)150 4822 y Fu(gn)m(utls)p 483 4822 37
5 v 55 w(x509)p 786 4822 V 54 w(privk)m(ey)p 1240 4822
V 54 w(exp)s(ort)p 1645 4822 V 54 w(rsa)p 1857 4822 V
54 w(ra)m(w)3350 5011 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_x509_privkey_e)q(xpor)q(t_r)q(sa_)q(raw)f Fg(\()p
Ff(gn)m(utls)p 2464 5011 28 4 v 41 w(x509)p 2688 5011
V 41 w(privk)m(ey)p 3022 5011 V 40 w(t)565 5121 y Fe(key)12
b Ff(,)31 b(gn)m(utls)p 1035 5121 V 41 w(datum)p 1334
5121 V 39 w(t)g(*)g Fe(m)12 b Ff(,)30 b(gn)m(utls)p 1874
5121 V 40 w(datum)p 2172 5121 V 40 w(t)h(*)f Fe(e)12
b Ff(,)31 b(gn)m(utls)p 2713 5121 V 40 w(datum)p 3011
5121 V 40 w(t)f(*)h Fe(d)12 b Ff(,)565 5230 y(gn)m(utls)p
811 5230 V 41 w(datum)p 1110 5230 V 39 w(t)31 b(*)g Fe(p)12
b Ff(,)30 b(gn)m(utls)p 1650 5230 V 40 w(datum)p 1948
5230 V 40 w(t)h(*)f Fe(q)12 b Ff(,)31 b(gn)m(utls)p 2489
5230 V 40 w(datum)p 2787 5230 V 40 w(t)f(*)h Fe(u)12
b Fg(\()390 5340 y Ff(k)m(ey)c FB(:)41 b(a)31 b(structure)f(that)h
(holds)f(the)g(rsa)h(parameters)p eop end
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TeXDict begin 237 242 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(237)390 299 y
Ff(m)p FB(:)40 b(will)31 b(hold)f(the)h(mo)s(dulus)390
435 y Ff(e)5 b FB(:)41 b(will)31 b(hold)f(the)g(public)g(exp)s(onen)m
(t)390 571 y Ff(d)t FB(:)40 b(will)30 b(hold)g(the)h(priv)-5
b(ate)31 b(exp)s(onen)m(t)390 707 y Ff(p)s FB(:)40 b(will)31
b(hold)f(the)g(\014rst)g(prime)g(\(p\))390 842 y Ff(q)r
FB(:)41 b(will)30 b(hold)g(the)h(second)f(prime)g(\(q\))390
978 y Ff(u)p FB(:)40 b(will)31 b(hold)f(the)g(co)s(e\016cien)m(t)390
1114 y(This)e(function)g(will)i(exp)s(ort)e(the)h(RSA)f(priv)-5

b(ate)30 b(k)m(ey)s(f(parameters)g(found)f(in)g(the)h(giv)m(en)h
(struc-)390 1224 y(ture.)38 b(The)21 b(new)h(parameters)h(will)f(b)s(e)
g(allo)s(cated)i(using)d Fs(gnutls_malloc\(\))d FB(and)k(will)g(b)s(e)g
(stored)390 1333 y(in)30 b(the)h(appropriate)f(datum.)390
1469 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1670 y Fu(gn)m(utls)p 483 1670 37 5 v 55
w(x509)p 786 1670 V 54 w(privk)m(ey)p 1240 1670 V 54
w(exp)s(ort)3350 1868 y FB([F)d(unction)]-3599 b Fh(int)53
b(gnutls_x509_privkey_e)q(xpor)q(t)f Fg(\()p Ff(gn)m(utls)p
2046 1868 28 4 v 40 w(x509)p 2269 1868 V 42 w(privk)m(ey)p
2604 1868 V 40 w(t)31 b Fe(key)12 b Ff(,)565 1978 y(gn)m(utls)p
811 1978 V 41 w(x509)p 1035 1978 V 41 w(crt)p 1187 1978
V 40 w(fm)m(t)p 1363 1978 V 41 w(t)30 b Fe(format)12
b Ff(,)32 b(v)m(oid)f(*)g Fe(output_data)12 b Ff(,)33
b(size)p 2906 1978 V 41 w(t)e(*)565 2087 y Fe(output_data_size)12
b Fg(\()390 2197 y Ff(k)m(ey)c FB(:)41 b(Holds)31 b(the)f(k)m(ey)390
2333 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(output)f(params.)40
b(One)30 b(of)h(PEM)f(or)g(DER.)390 2469 y Ff(output)p
664 2469 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(a)e(priv)-5
b(ate)31 b(k)m(ey)g(PEM)g(or)f(DER)h(enco)s(ded)390 2605
y Ff(output)p 664 2605 V 40 w(data)p 880 2605 V 40 w(size)5
b FB(:)49 b(holds)34 b(the)g(size)h(of)f(output)p 2093
2605 V 39 w(data)h(\(and)f(will)g(b)s(e)f(replaced)i(b)m(y)e(the)i
(actual)390 2714 y(size)c(of)g(parameters\))390 2850
y(This)40 b(function)h(will)g(exp)s(ort)g(the)g(priv)-5
b(ate)41 b(k)m(ey)h(to)f(a)h(PK)m(CS1)e(structure)g(for)h(RSA)g(k)m
(eys,)j(or)390 2960 y(an)35 b(in)m(TEGER)i(sequence)f(for)f(DSA)h(k)m
(eys.)57 b(The)35 b(DSA)g(k)m(eys)h(are)g(in)f(the)h(same)g(format)g
(with)f(the)390 3069 y(parameters)c(used)e(b)m(y)i(op)s(enssl.)390
3205 y(If)23 b(the)g(bu\013er)f(pro)m(vided)g(is)h(not)h(long)f(enough)
g(to)h(hold)f(the)g(output,)h(then)f(*)p Fs(output_data_size)390
3315 y FB(is)30 b(up)s(dated)f(and)h Fs(GNUTLS_E_SHORT_MEMORY_BUF)o
(FER)24 b FB(will)31 b(b)s(e)e(returned.)390 3451 y(If)35
b(the)h(structure)f(is)g(PEM)h(enco)s(ded,)g(it)g(will)g(ha)m(v)m(e)h
(a)f(header)f(of)g Fs("")p FB(BEGIN)h(RSA)f(PRIV)-10 b(A)i(TE)390
3560 y(KEY)p Fs("")p FB(.)390 3696 y Fn>Returns:)36 b
FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3897 y Fu(gn)m(utls)p 483 3897 37 5 v 55
w(x509)p 786 3897 V 54 w(privk)m(ey)p 1240 3897 V 54
w(\014x)3350 4095 y FB([F)d(unction)]-3599 b Fh(int)53
b(gnutls_x509_privkey_f)q(ix)f Fg(\()p Ff(gn)m(utls)p
1889 4095 28 4 v 40 w(x509)p 2112 4095 V 42 w(privk)m(ey)p
2447 4095 V 40 w(t)31 b Fe(key)12 b Fg(\()390 4205 y
Ff(k)m(ey)c FB(:)41 b(Holds)31 b(the)f(k)m(ey)390 4341
y(This)i(function)h(will)h(recalculate)i(the)d(secondary)h(parameters)f
(in)g(a)h(k)m(ey)-8 b(.)51 b(In)32 b(RSA)h(k)m(eys,)i(this)390

4450 y(can)c(b)s(e)e(the)i(co)s(e)016cien)m(t)h(and)e(exp)s(onen)m
(t1,2.)390 4586 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 4787 y Fu(gn)m(utls)p
483 4787 37 5 v 55 w(x509)p 786 4787 V 54 w(privk)m(ey)p
1240 4787 V 54 w(generate)3350 4985 y FB([F]d(unction))-3599
b Fh(int)53 b(gnutls_x509_privkey_g)q(ener)q(ate)f Fg()\p
Ff(gn)m(utls)p 2150 4985 28 4 v 41 w(x509)p 2374 4985
V 41 w(privk)m(ey)p 2708 4985 V 40 w(t)31 b Fe(key)12
b Ff(,)565 5094 y(gn)m(utls)p 811 5094 V 41 w(pk)p 951
5094 V 39 w(algorithm)p 1373 5094 V 41 w(t)31 b Fe(algo)12
b Ff(,)31 b(unsigned)e(in)m(t)i Fe(bits)12 b Ff(,)32
b(unsigned)d(in)m(t)i Fe(flags)12 b Fg()\p 390 5204 y
Ff(k)m(ey)c FB(:)41 b(should)30 b(con)m(tain)h(a)g Fs
(gnutls_x509_privkey_t)25 b FB(structure)390 5340 y Ff(algo)5
b FB(:)42 b(is)30 b(one)h(of)f(RSA)g(or)h(DSA.)p eop
end
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b(F)-8 b(unction)31 b(Reference)2237 b(238)390 299 y
Ff(bits)t FB(:)40 b(the)31 b(size)g(of)g(the)f(mo)s(dulus)390
426 y Ff(\015ags)t FB(:)41 b(un)m(used)29 b(for)h(no)m(w.)41
b(Must)30 b(b)s(e)g(0.)390 553 y(This)35 b(function)h(will)g(generate)i
(a)e(random)g(priv)-5 b(ate)36 b(k)m(ey)-8 b(.)59 b(Note)37
b(that)g(this)f(function)g(m)m(ust)g(b)s(e)390 662 y(called)c(on)e(an)g
(empty)m(y)h(priv)-5 b(ate)31 b(k)m(ey)-8 b(.)390 789
y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 973 y Fu(gn)m(utls)p 483 973 37 5 v 55 w(x509)p
786 973 V 54 w(privk)m(ey)p 1240 973 V 54 w(get)p 1459
973 V 54 w(k)m(ey)p 1696 973 V 53 w(id)3350 1154 y FB([F]d(unction))
-3599 b Fh(int)53 b(gnutls_x509_privkey_g)q(et_k)q(ey_)q(id)f
Fg()\p Ff(gn)m(utls)p 2255 1154 28 4 v 41 w(x509)p 2479
1154 V 41 w(privk)m(ey)p 2813 1154 V 40 w(t)31 b Fe(key)12
b Ff(,)565 1264 y(unsigned)29 b(in)m(t)i Fe(flags)12
b Ff(,)32 b(unsigned)d(c)m(har)i(*)g Fe(output_data)12
b Ff(,)33 b(size)p 2856 1264 V 41 w(t)e(*)565 1374 y
Fe(output_data_size)12 b Fg()\p 390 1483 y Ff(k)m(ey)c
FB(:)41 b(Holds)31 b(the)f(k)m(ey)390 1610 y Ff(\015ags)t
FB(:)41 b(should)29 b(b)s(e)h(0)h(for)f(no)m(w)390 1737
y Ff(output)p 664 1737 V 40 w(data)p FB(:)41 b(will)31
b(con)m(tain)h(the)e(k)m(ey)h(ID)390 1864 y Ff(output)p
664 1864 V 40 w(data)p 880 1864 V 40 w(size)5 b FB(:)49
b(holds)34 b(the)g(size)h(of)f(output)p 2093 1864 V 39
w(data)h(\and)f(will)g(b)s(e)f(replaced)i(b)m(y)e(the)i(actual)390
1973 y(size)c(of)g(parameters))390 2100 y(This)24 b(function)h(will)h
(return)e(a)i(unique)e(ID)h(the)h(dep)s(ends)d(on)i(the)h(public)e(k)m
(ey)i(parameters.)40 b(This)390 2210 y(ID)31 b(can)f(b)s(e)g(used)g(in)

g(c)m(hec)m(king)i(whether)e(a)g(cert\014cate)j(corresp)s(onds)c(to)i
(the)f(giv)m(en)i(k)m(ey)-8 b(.)390 2337 y(If)23 b(the)g(bu\013er)f
(pro)m(vided)g(is)h(not)h(long)f(enough)g(to)h(hold)f(the)g(output,)h
(then)f(*)p Fs(output_data_size)390 2446 y FB(is)34 b(up)s(dated)f(and)
h Fs(GNUTLS_E_SHORT_MEMORY_BU)o(FFER)27 b FB(will)35
b(b)s(e)f(returned.)51 b(The)34 b(output)g(will)390 2556
y(normally)d(b)s(e)e(a)i(SHA-1)g(hash)f(output,)g(whic)m(h)g(is)g(20)i
(b)m(ytes.)390 2683 y Fn>Returns:)k FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 2867 y Fu(gn)m(utls)p
483 2867 37 5 v 55 w(x509)p 786 2867 V 54 w(privk)m(ey)p
1240 2867 V 54 w(get)p 1459 2867 V 54 w(pk)p 1646 2867
V 54 w(algorithm)3350 3048 y FB([F)d(unction)]-3599 b
Fh(int)53 b(gnutls_x509_privkey_g)q(et_p)q(k_a)q(lgo)q(rit)q(hm)f
Fg(\()p Ff(gn)m(utls)p 2569 3048 28 4 v 40 w(x509)p 2792
3048 V 42 w(privk)m(ey)p 3127 3048 V 40 w(t)565 3158
y Fe(key)12 b Fg(\()390 3267 y Ff(k)m(ey)c FB(:)41 b(should)30
b(con)m(tain)h(a)g Fs(gnutls_x509_privkey_t)25 b FB(structure)390
3394 y(This)30 b(function)g(will)g(return)g(the)g(public)g(k)m(ey)h
(algorithm)g(of)g(a)g(priv)-5 b(ate)31 b(k)m(ey)-8 b(.)390
3521 y Fn>Returns:)61 b FB(a)40 b(mem)m(b)s(er)g(of)h(the)g
Fs(gnutls_pk_algorithm_t)34 b FB(en)m(umeration)41 b(on)g(success,)i
(or)e(a)390 3631 y(negativ)m(e)33 b(v)-5 b(alue)30 b(on)h(error.)150
3815 y Fu(gn)m(utls)p 483 3815 37 5 v 55 w(x509)p 786
3815 V 54 w(privk)m(ey)p 1240 3815 V 54 w(imp)s(ort)p
1660 3815 V 55 w(dsa)p 1891 3815 V 54 w(ra)m(w)3350 3996
y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_x509_privkey_i)q(mpor)
q(t_d)q(sa_)q(raw)f Fg(\()p Ff(gn)m(utls)p 2464 3996
28 4 v 41 w(x509)p 2688 3996 V 41 w(privk)m(ey)p 3022
3996 V 40 w(t)565 4106 y Fe(key)12 b Ff(,)31 b(const)g(gn)m(utls)p
1273 4106 V 40 w(datum)p 1571 4106 V 40 w(t)g(*)f Fe(p)12
b Ff(,)31 b(const)g(gn)m(utls)p 2350 4106 V 40 w(datum)p
2648 4106 V 40 w(t)f(*)h Fe(q)12 b Ff(,)30 b(const)565
4215 y(gn)m(utls)p 811 4215 V 41 w(datum)p 1110 4215
V 39 w(t)h(*)g Fe(g)12 b Ff(,)30 b(const)h(gn)m(utls)p
1888 4215 V 40 w(datum)p 2186 4215 V 40 w(t)f(*)h Fe(y)12
b Ff(,)31 b(const)f(gn)m(utls)p 2964 4215 V 41 w(datum)p
3263 4215 V 39 w(t)h(*)g Fe(x)12 b Fg(\()390 4325 y Ff(k)m(ey)c
FB(:)41 b(The)30 b(structure)g(to)h(store)g(the)g(parsed)e(k)m(ey)390
4452 y Ff(p)s FB(:)40 b(holds)30 b(the)g(p)390 4578 y
Ff(q)r FB(:)41 b(holds)30 b(the)g(q)390 4705 y Ff(g)8
b FB(:)41 b(holds)30 b(the)g(g)390 4832 y Ff(y)8 b FB(:)40
b(holds)30 b(the)h(y)390 4959 y Ff(x)6 b FB(:)41 b(holds)30
b(the)g(x)390 5086 y(This)24 b(function)g(will)i(con)m(v)m(ert)g(the)f
(giv)m(en)h(DSA)f(ra)m(w)g(parameters)g(to)g(the)g(nativ)m(e)h
Fs(gnutls_x509_)390 5195 y(privkey_t)i FB(format.)41
b(The)30 b(output)g(will)g(b)s(e)g(stored)h(in)f Fs(key)p
FB(.)390 5322 y Fn>Returns:)36 b FB(On)20 b(success,)j

Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
 (negativ)m(e)h(error)d(v)-5 b(alue.)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(239)150 299 y
 Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
 w(privk)m(ey)p 1240 299 V 54 w(imp)s(ort)p 1660 299 V
 55 w(pk)m(cs8)3350 496 y FB([F]-8 b(unction)]-3599 b
 Fh(int)53 b(gnutls_x509_privkey_i)q(mpor)q(t_p)q(kcs)q(8)e
 Fg(\()p Ff(gn)m(utls)p 2359 496 28 4 v 41 w(x509)p 2583
 496 V 41 w(privk)m(ey)p 2917 496 V 41 w(t)565 606 y Fe(key)12
 b Ff(,)31 b(const)g(gn)m(utls)p 1273 606 V 40 w(datum)p
 1571 606 V 40 w(t)g(*)f Fe(data)12 b Ff(,)32 b(gn)m(utls)p
 2269 606 V 40 w(x509)p 2492 606 V 41 w(crt)p 2644 606
 V 41 w(fm)m(t)p 2821 606 V 40 w(t)f Fe(format)12 b Ff(,)32
 b(const)f(c)m(har)565 715 y(*)g Fe(password)12 b Ff(,)32
 b(unsigned)e(in)m(t)h Fe(flags)12 b Fg(\()390 825 y Ff(k)m(ey)c
 FB(:)41 b(The)30 b(structure)g(to)h(store)g(the)g(parsed)e(k)m(ey)390
 960 y Ff(data)p FB(:)41 b(The)30 b(DER)h(or)f(PEM)h(enco)s(ded)f(k)m
 (ey)-8 b(.)390 1095 y Ff(format)r FB(:)41 b(One)30 b(of)g(DER)h(or)f
 (PEM)390 1230 y Ff(passw)m(ord)t FB(:)40 b(the)30 b(passw)m(ord)g(to)h
 (decrypt)f(the)h(k)m(ey)g(\(if)h(it)h(is)g(encrypted)\.)390
 1365 y Ff(\015ags)t FB(:)41 b(0)30 b(if)h(encrypted)f(or)g(GNUTLS)p
 1716 1365 V 40 w(PK)m(CS)p 2003 1365 V 39 w(PLAIN)g(if)h(not)f
 (encrypted.)390 1500 y(This)40 b(function)g(will)h(con)m(v)m(ert)h(the)
 e(giv)m(en)i(DER)f(or)f(PEM)h(enco)s(ded)f(PK)m(CS8)g(2.0)h(encrypted)
 390 1610 y(k)m(ey)d(to)f(the)h(nativ)m(e)g(gn)m(utls)p
 1367 1610 V 40 w(x509)p 1590 1610 V 42 w(privk)m(ey)p
 1925 1610 V 40 w(t)f(format.)61 b(The)37 b(output)f(will)h(b)s(e)g
 (stored)g(in)g Fs(key)p FB(.)390 1719 y(Both)30 b(RSA)f(and)f(DSA)i(k)m
 (eys)g(can)f(b)s(e)g(imp)s(orted,)g(and)g(\015ags)g(can)h(only)f(b)s(e)
 g(used)g(to)h(indicate)g(an)390 1829 y(unencrypted)f(k)m(ey)-8
 b(.)390 1964 y(The)48 b Fs(password)e FB(can)i(b)s(e)g(either)h(ASCI)s
 (I)d(or)j(UTF-8)g(in)f(the)g(default)h(PBES2)f(encryption)390
 2074 y(sc)m(hemas,)31 b(or)g(ASCI)s(I)d(for)j(the)f(PK)m(CS12)h(sc)m
 (hemas.)390 2209 y(If)36 b(the)g(Certi\014cate)h(is)g(PEM)f(enco)s(ded)
 f(it)i(should)e(ha)m(v)m(e)j(a)e(header)g(of)g Fs(")p
 FB(ENCR)-8 b(YPTED)36 b(PRI-)390 2318 y(V)-10 b(A)i(TE)32
 b(KEY)p Fs(")p FB(,)g(or)g Fs(")p FB(PRIV)-10 b(A)i(TE)32
 b(KEY)p Fs(")p FB(.)45 b(Y)-8 b(ou)32 b(only)g(need)g(to)h(sp)s(ecify)f
 (the)g(\015ags)g(if)g(the)g(k)m(ey)h(is)390 2428 y(DER)e(enco)s(ded,)f
 (since)h(in)f(that)h(case)g(the)g(encryption)f(status)h(cannot)f(b)s(e)
 g(auto-detected.)390 2563 y Fn>Returns:)36 b FB(On)20
 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
 f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 2763 y Fu(gn)m(utls)p
 483 2763 37 5 v 55 w(x509)p 786 2763 V 54 w(privk)m(ey)p
 1240 2763 V 54 w(imp)s(ort)p 1660 2763 V 55 w(rsa)p 1873
 2763 V 54 w(ra)m(w)3350 2960 y FB([F)d(unction)]-3599

b Fh(int)53 b(gnutls_x509_privkey_i)q(mpor)q(t_r)q(sa_)q(raw)f
Fg(\()p Ff(gn)m(utls)p 2464 2960 28 4 v 41 w(x509)p 2688
2960 V 41 w(privk)m(ey)p 3022 2960 V 40 w(t)565 3070
y Fe(key)12 b Ff(,)31 b(const)g(gn)m(utls)p 1273 3070
V 40 w(datum)p 1571 3070 V 40 w(t)g(*)f Fe(m)12 b Ff(,)31
b(const)g(gn)m(utls)p 2350 3070 V 40 w(datum)p 2648 3070
V 40 w(t)f(*)h Fe(e)12 b Ff(,)30 b(const)565 3179 y(gn)m(utls)p
811 3179 V 41 w(datum)p 1110 3179 V 39 w(t)f(*)h Fe(d)12
b Ff(,)29 b(const)g(gn)m(utls)p 1882 3179 V 41 w(datum)p
2181 3179 V 39 w(t)h(*)f Fe(p)12 b Ff(,)29 b(const)h(gn)m(utls)p
2954 3179 V 40 w(datum)p 3252 3179 V 40 w(t)f(*)g Fe(q)12
b Ff(,)29 b(const)565 3289 y(gn)m(utls)p 811 3289 V 41
w(datum)p 1110 3289 V 39 w(t)i(*)g Fe(u)12 b Fg(\))390
3399 y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(store)g(the)g
(parsed)e(k)m(ey)390 3534 y Ff(m)p FB(:)40 b(holds)30
b(the)h(mo)s(dulus)390 3669 y Ff(e)5 b FB(:)41 b(holds)30
b(the)h(public)e(exp)s(onen)m(t)390 3804 y Ff(d)t FB(:)40
b(holds)30 b(the)g(priv)-5 b(ate)31 b(exp)s(onen)m(t)390
3939 y Ff(p)s FB(:)40 b(holds)30 b(the)g(\014rst)g(prim)e)g(\(p\))390
4074 y Ff(q)r FB(:)41 b(holds)30 b(the)g(second)h(prim)e)g(\(q\))390
4209 y Ff(u)p FB(:)40 b(holds)30 b(the)h(co)s(e\016cien)m(t)390
4344 y(This)24 b(function)h(will)g(con)m(v)m(ert)i(the)e(giv)m(en)h
(RSA)f(ra)m(w)g(parameters)g(to)h(the)f(nativ)m(e)h Fs(gnutls_x509_)390
4454 y(privkey_t)i FB(format.)41 b(The)30 b(output)g(will)g(b)s(e)g
(stored)h(in)f Fs(key)p FB(.)390 4589 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 4788 y Fu(gn)m(utls)p 483 4788 37 5 v 55
w(x509)p 786 4788 V 54 w(privk)m(ey)p 1240 4788 V 54
w(imp)s(ort)3350 4986 y FB([F)d(unction)]-3599 b Fh(int)53
b(gnutls_x509_privkey_i)q(mpor)q(t)f Fg(\()p Ff(gn)m(utls)p
2046 4986 28 4 v 40 w(x509)p 2269 4986 V 42 w(privk)m(ey)p
2604 4986 V 40 w(t)31 b Fe(key)12 b Ff(,)30 b(const)565
5095 y(gn)m(utls)p 811 5095 V 41 w(datum)p 1110 5095
V 39 w(t)h(*)g Fe(data)12 b Ff(,)31 b(gn)m(utls)p 1807
5095 V 40 w(x509)p 2030 5095 V 42 w(crt)p 2183 5095 V
40 w(fm)m(t)p 2359 5095 V 40 w(t)g Fe(format)12 b Fg(\))390
5205 y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(store)g(the)g
(parsed)e(k)m(ey)390 5340 y Ff(data)p FB(:)41 b(The)30
b(DER)h(or)f(PEM)h(enco)s(ded)f(cert)\014cate.)p eop
end
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TeXDict begin 240 245 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(240)390 299 y
Ff(format)r FB(:)41 b(One)30 b(of)g(DER)h(or)f(PEM)390
434 y(This)25 b(function)h(will)h(con)m(v)m(ert)h(the)e(giv)m(en)i(DER
e(or)g(PEM)h(enco)s(ded)f(k)m(ey)h(to)g(the)f(nativ)m(e)i
Fs(gnutls_)390 544 y(x509_privkey_t)e FB(format.)42 b(The)29

b(output)h(will)h(b)s(e)f(stored)g(in)g Fs(key)g FB(.)390
679 y(If)38 b(the)g(k)m(ey)h(is)g(PEM)f(enco)s(ded)g(it)h(should)e(ha)m
(v)m(e)i(a)g(header)f(of)g Fs("")p FB(RSA)g(PRIV)-10 b(A)i(TE)38
b(KEY)p Fs("")p FB(,)i(or)390 788 y Fs("")p FB(DSA)30 b(PRIV)-10
b(A)i(TE)30 b(KEY)p Fs("")p FB(.)390 923 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1123 y Fu(gn)m(utls)p 483 1123 37 5 v 55
w(x509)p 786 1123 V 54 w(privk)m(ey)p 1240 1123 V 54
w(init)3350 1321 y FB([F)d(unction)]-3599 b Fh(int)53
b(gnutls_x509_privkey_i)q(nit)f Fg(\()p Ff(gn)m(utls)p
1941 1321 28 4 v 41 w(x509)p 2165 1321 V 41 w(privk)m(ey)p
2499 1321 V 40 w(t)31 b(*)g Fe(key)12 b Fg(\()390 1430
y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)f(initialized)
390 1565 y(This)g(function)g(will)g(initialize)j(an)d(priv)-5
b(ate)31 b(k)m(ey)g(structure.)390 1701 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 1901 y Fu(gn)m(utls)p 483 1901 37 5 v 55
w(x509)p 786 1901 V 54 w(privk)m(ey)p 1240 1901 V 54
w(sign)p 1505 1901 V 55 w(data)3350 2098 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_x509_privkey_s)q(ign_)q(dat)q(a)e
Fg(\()p Ff(gn)m(utls)p 2202 2098 28 4 v 41 w(x509)p 2426
2098 V 42 w(privk)m(ey)p 2761 2098 V 40 w(t)30 b Fe(key)12
b Ff(,)565 2207 y(gn)m(utls)p 811 2207 V 41 w(digest)p
1084 2207 V 40 w(algorithm)p 1507 2207 V 41 w(t)31 b
Fe(digest)12 b Ff(,)32 b(unsigned)d(in)m(t)i Fe(flags)12
b Ff(,)32 b(const)f(gn)m(utls)p 3320 2207 V 40 w(datum)p
3618 2207 V 40 w(t)565 2317 y(*)g Fe(data)12 b Ff(,)31
b(v)m(oid)g(*)g Fe(signature)12 b Ff(,)33 b(size)p 1875
2317 V 41 w(t)d(*)h Fe(signature_size)12 b Fg(\()390
2427 y Ff(k)m(ey)c FB(:)41 b(Holds)31 b(the)f(k)m(ey)390
2562 y Ff(digest)r FB(:)41 b(should)30 b(b)s(e)g(MD5)h(or)f(SHA1)390
2697 y Ff(\015ags)t FB(:)41 b(should)29 b(b)s(e)h(0)h(for)f(no)m(w)390
2832 y Ff(data)p FB(:)41 b(holds)30 b(the)h(data)g(to)g(b)s(e)f(signed)
390 2967 y Ff(signature)5 b FB(:)41 b(will)31 b(con)m(tain)h(the)e
(signature)390 3102 y Ff(signature)p 760 3102 V 40 w(size)5
b FB(:)42 b(holds)30 b(the)h(size)g(of)f(signature)h(\(and)f(will)h(b)s
(e)f(replaced)g(b)m(y)h(the)f(new)g(size\))390 3237 y(This)i(function)h
(will)g(sign)g(the)g(giv)m(en)h(data)g(using)e(a)i(signature)f
(algorithm)h(supp)s(orted)d(b)m(y)i(the)390 3347 y(priv)-5
b(ate)39 b(k)m(ey)-8 b(.)68 b(Signature)39 b(algorithms)h(are)f(alw)m
(a)m(ys)h(used)f(together)h(with)f(a)g(hash)f(functions.)390
3457 y(Di\013eren)m(t)30 b(hash)e(functions)g(ma)m(y)h(b)s(e)e(used)h
(for)g(the)h(RSA)f(algorithm,)i(but)e(only)g(SHA-1)i(for)e(the)390
3566 y(DSA)i(k)m(ey)s.)390 3701 y(If)g(the)h(bu\013er)e(prom(vided)h
(is)h(not)h(long)i(enough)e(to)h(hold)f(the)h(output,)f(then)g(*)p
Fs(signature_size)390 3811 y FB(is)g(up)s(dated)f(and)h

Fs(GNUTLS_E_SHORT_MEMORY_BUF)o(FER)24 b FB(will)31 b(b)s(e)e(returned.)
390 3946 y Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)
16 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 4146 y Fu(gn)m(utls)p 483 4146 37 5 v 55
w(x509)p 786 4146 V 54 w(privk)m(ey)p 1240 4146 V 54
w(sign)p 1505 4146 V 55 w(hash)3350 4343 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_x509_privkey_s)q(ign_)q(has)q(h)e
Fg(\()p Ff(gn)m(utls)p 2202 4343 28 4 v 41 w(x509)p 2426
4343 V 42 w(privk)m(ey)p 2761 4343 V 40 w(t)30 b Fe(key)12
b Ff(,)565 4453 y(const)31 b(gn)m(utls)p 1049 4453 V
40 w(datum)p 1347 4453 V 40 w(t)g(*)f Fe(hash)12 b Ff(,)32
b(gn)m(utls)p 2045 4453 V 40 w(datum)p 2343 4453 V 40
w(t)e(*)h Fe(signature)12 b Fg(\))390 4563 y Ff(k)m(ey)c
FB(:)41 b(Holds)31 b(the)f(k)m(ey)390 4698 y Ff(hash)p
FB(:)40 b(holds)30 b(the)g(data)h(to)h(b)s(e)d(signed)390
4833 y Ff(signature)5 b FB(:)41 b(will)31 b(con)m(tain)h(newly)e(allo)s
(cated)i(signature)390 4968 y(This)c(function)g(will)g(sign)h(the)f
(giv)m(en)i(hash)d(using)h(the)h(priv)-5 b(ate)29 b(k)m(ey)-8
b(.)41 b(Do)29 b(not)g(use)f(this)g(function)390 5078
y(directly)35 b(unless)e(y)m(ou)h(kno)m(w)g(what)g(it)g(is.)51
b(T)m(ypical)35 b(signing)f(requires)f(the)h(data)h(to)g(b)s(e)e
(hashed)390 5187 y(and)d(stored)g(in)g(sp)s(ecial)h(formats)g(\(e.g.)42
b(BER)30 b(Digest-Info)i(for)f(RSA\).)390 5322 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(241)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
w(privk)m(ey)p 1240 299 V 54 w(v)m(erify)p 1598 299 V
54 w(data)3350 495 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_x509_privkey_v)q(erif)q(y_d)q(ata)f Fg(\()p
Ff(gn)m(utls)p 2307 495 28 4 v 41 w(x509)p 2531 495 V
41 w(privk)m(ey)p 2865 495 V 40 w(t)31 b Fe(key)12 b
Ff(,)565 604 y(unsigned)29 b(in)m(t)i Fe(flags)12 b Ff(,)32
b(const)f(gn)m(utls)p 1896 604 V 40 w(datum)p 2194 604
V 40 w(t)f(*)h Fe(data)12 b Ff(,)31 b(const)g(gn)m(utls)p
3129 604 V 41 w(datum)p 3428 604 V 39 w(t)g(*)565 714
y Fe(signature)12 b Fg(\))390 824 y Ff(k)m(ey)c FB(:)41
b(Holds)31 b(the)f(k)m(ey)390 958 y Ff(\015ags)t FB(:)41
b(should)29 b(b)s(e)h(0)h(for)f(no)m(w)390 1092 y Ff(data)p
FB(:)41 b(holds)30 b(the)h(data)g(to)g(b)s(e)f(signed)390
1226 y Ff(signature)5 b FB(:)41 b(con)m(tains)32 b(the)e(signature)390
1360 y(This)k(function)h(will)h(v)m(erify)f(the)h(giv)m(en)g(signed)f
(data,)j(using)c(the)i(parameters)f(in)g(the)g(priv)-5
b(ate)390 1469 y(k)m(ey)d(.)390 1603 y Fn>Returns:)40
b FB(In)30 b(case)h(of)g(a)g(v)m(eri\014cation)h(failure)e(0)h(is)f

(returned,)g(and)g(1)g(on)h(success.)150 1802 y Fu(gn)m(utls)p
483 1802 37 5 v 55 w(x509)p 786 1802 V 54 w(rdn)p 1026
1802 V 55 w(get)p 1246 1802 V 54 w(b)m(y)p 1430 1802
V 54 w(oid)3350 1998 y FB([F]-8 b(unction))-3599 b Fh(int)53
b(gnutls_x509_rdn_get_b)q(y_oi)q(d)f Fg(\()p Ff(const)31
b(gn)m(utls)p 2284 1998 28 4 v 40 w(datum)p 2582 1998
V 40 w(t)f(*)h Fe(idn)12 b Ff(,)31 b(const)565 2107 y(c)m(har)g(*)g
Fe(oid)12 b Ff(,)31 b(in)m(t)g Fe(indx)12 b Ff(,)31 b(unsigned)e(in)m
(t)i Fe(raw_flag)12 b Ff(,)32 b(v)m(oid)f(*)g Fe(buf)12
b Ff(,)31 b(size)p 3127 2107 V 41 w(t)g(*)565 2217 y
Fe(sizeof_buf)12 b Fg(\)390 2326 y Ff(idn)p FB(:)40
b(should)29 b(con)m(tain)j(a)f(DER)f(enco)s(ded)g(RDN)h(sequence)390
2460 y Ff(oid)t FB(:)40 b(an)31 b(Ob)5 b(ject)30 b(Ide)m(ti\014er)390
2594 y Ff(indx)6 b FB(:)47 b(In)33 b(case)h(m)m(ultiple)h(same)f(OIDs)f
(exist)h(in)g(the)g(RDN)g(indicates)g(whic)m(h)f(to)i(send.)50
b(Use)34 b(0)390 2704 y(for)c(the)h(\014rst)e(one.)390
2838 y Ff(ra)m(w)p 540 2838 V 40 w(\015ag)8 b FB(:)41
b(lf)30 b(non)g(zero)h(then)f(the)h(ra)m(w)f(DER)h(data)g(are)f
(returned.)390 2972 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h
(a)g(structure)f(to)h(hold)f(the)h(p)s(eer's)e(name)390
3106 y Ff(sizeof)p 610 3106 V 41 w(buf)17 b FB(:)40 b(holds)30
b(the)h(size)g(of)f Fs(buf)390 3240 y FB(This)21 b(function)g(will)g
(return)g(the)g(name)h(of)f(the)h(giv)m(en)g(Ob)5 b(ject)22
b(iden)m(ti\014er,)h(of)f(the)f(RDN)h(sequence.)390 3350
y(The)30 b(name)g(will)h(b)s(e)f(enco)s(ded)g(using)g(the)g(rules)g
(from)g(RF)m(C2253.)390 3484 y Fn>Returns:)51 b FB(On)34
b(success,)k Fs(GNUTLS_E_SUCCESS)31 b FB(is)36 b(returned,)f(or)h
Fs(GNUTLS_E_SHORT_MEMORY_)390 3593 y(BUFFER)h FB(is)i(returned)f(and)g
(*)p Fs(sizeof_buf)f FB(is)i(up)s(dated)f(if)g(the)i(pro)m(vided)e
(bu\013er)g(is)h(not)g(long)390 3703 y(enough,)30 b(otherwise)h(a)g
(negativ)m(e)i(error)d(v)-5 b(alue.)150 3901 y Fu(gn)m(utls)p
483 3901 37 5 v 55 w(x509)p 786 3901 V 54 w(rdn)p 1026
3901 V 55 w(get)p 1246 3901 V 54 w(oid)3350 4097 y FB([F]d(unction))
-3599 b Fh(int)53 b(gnutls_x509_rdn_get_o)q(id)f Fg(\()p
Ff(const)31 b(gn)m(utls)p 2127 4097 28 4 v 40 w(datum)p
2425 4097 V 40 w(t)g(*)f Fe(idn)12 b Ff(,)31 b(in)m(t)565
4207 y Fe(indx)12 b Ff(,)31 b(v)m(oid)g(*)g Fe(buf)12
b Ff(,)31 b(size)p 1485 4207 V 41 w(t)g(*)f Fe(sizeof_buf)12
b Fg(\)390 4316 y Ff(idn)p FB(:)40 b(should)29 b(con)m(tain)j(a)f(DER)
f(enco)s(ded)g(RDN)h(sequence)390 4451 y Ff(indx)6 b
FB(:)40 b(Indicates)31 b(whic)m(h)f(OID)g(to)i(return.)39
b(Use)31 b(0)g(for)f(the)g(\014rst)g(one.)390 4585 y
Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h
(hold)f(the)h(p)s(eer's)e(name)i(OID)390 4719 y Ff(sizeof)p
610 4719 V 41 w(buf)17 b FB(:)40 b(holds)30 b(the)h(size)g(of)f
Fs(buf)390 4853 y FB(This)g(function)g(will)g(return)g(the)g(sp)s
(eci\014ed)g(Ob)5 b(ject)30 b(iden)m(ti\014er,)h(of)g(the)f(RDN)h
(sequence.)390 4987 y Fn>Returns:)51 b FB(On)34 b(success,)k

Fs(GNUTLS_E_SUCCESS)31 b FB(is)36 b(returned,)f(or)h
 Fs(GNUTLS_E_SHORT_MEMORY_)390 5096 y(BUFFER)h FB(is)i(returned)f(and)g
 (*p Fs(sizeof_buf)f FB(is)i(up)s(dated)f(if)g(the)i(pro)m(vided)e
 (bu\013er)g(is)h(not)g(long)390 5206 y(enough,)30 b(otherwise)h(a)g
 (negativ)m(e)i(error)d(v)-5 b(alue.)390 5340 y Fn(Since:)41
 b FB(2.4.0)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(242)150 299 y
 Fu(gn)m(utls)p 483 299 37 5 v 55 w(x509)p 786 299 V 54
 w(rdn)p 1026 299 V 55 w(get)3350 505 y FB([F]-8 b(unction)]-3599
 b Fh(int)53 b(gnutls_x509_rdn_get)e Fg(\()p Ff(const)32
 b(gn)m(utls)p 1918 505 28 4 v 40 w(datum)p 2216 505 V
 40 w(t)e(*)h Fe(idn)12 b Ff(,)31 b(c)m(har)g(*)g Fe(buf)12
 b Ff(,)565 615 y(size)p 712 615 V 41 w(t)31 b(*)f Fe(sizeof_buf)12
 b Fg(\)390 724 y Ff(idn)p FB(:)40 b(should)29 b(con)m(tain)j(a)f(DER)f
 (enco)s(ded)g(RDN)h(sequence)390 868 y Ff(buf)16 b FB(:)41
 b(a)31 b(p)s(oin)m(ter)f(to)h(a)g(structure)f(to)h(hold)f(the)h(p)s
 (eer)s(e)name)390 1012 y Ff(sizeof)p 610 1012 V 41 w(buf)17
 b FB(:)40 b(holds)30 b(the)h(size)g(of)f Fs(buf)390 1156
 y FB(This)g(function)g(will)h(return)e(the)i(name)f(of)h(the)g(giv)m
 (en)g(RDN)g(sequence.)42 b(The)30 b(name)h(will)f(b)s(e)g(in)390
 1266 y(the)h(form)e Fs(")p FB(C=xxxx,O=yyyy)-8 b(CN=zzzz)p
 Fs(")31 b FB(as)g(describ)s(ed)e(in)h(RF)m(C2253.)390
 1410 y Fn>Returns:)51 b FB(On)34 b(success,)k Fs(GNUTLS_E_SUCCESS)31
 b FB(is)36 b(returned,)f(or)h Fs(GNUTLS_E_SHORT_MEMORY_)390
 1519 y(BUFFER)h FB(is)i(returned)f(and)g(*)p Fs(sizeof_buf)f
 FB(is)i(up)s(dated)f(if)g(the)i(pro)m(vided)e(bu\013er)g(is)h(not)g
 (long)390 1629 y(enough,)30 b(otherwise)h(a)g(negativ)m(e)i(error)d(v)
 -5 b(alue.)150 1875 y FA(9.3)68 b Fu(Gn)m(uTLS-extra)45
 b FA(F)-11 b(unctions)150 2035 y FB(These)21 b(functions)f(are)h(only)g
 (a)m(v)-5 b(ailable)23 b(in)e(the)g(GPLv3)p Fs(+)f FB(v)m(ersion)i(of)f
 (the)g(library)f(called)i Fs(gnutls-extra)p FB(.)150
 2144 y(The)30 b(protot)m(yp)s(es)h(for)f(this)g(library)g(lie)h(in)f(`
 p Fs(gnutls/extra.h)p FB(')150 2353 y Fu(gn)m(utls)p
 483 2353 37 5 v 55 w(extra)p 817 2353 V 53 w(c)m(hec)m(k)p
 1163 2353 V 52 w(v)m(ersion)3350 2559 y FB([F]-8 b(unction)]-3599
 b Fh(const)54 b(char)f(*)g(gnutls_extra_check_ver)q(sio)q(n)e
 Fg(\()p Ff(const)32 b(c)m(har)e(*)565 2669 y Fe(req_version)12
 b Fg(\)390 2779 y Ff(req)p 520 2779 28 4 v 40 w(v)m(ersion)p
 FB(:)41 b(v)m(ersion)31 b(string)f(to)h(compare)g(with,)g(or)f
 Fs(NULL)p FB(.)390 2923 y(Chec)m(k)h(Gn)m(uTLS)e(Extra)h(Library)g(v)m
 (ersion.)390 3066 y(See)h Fs(GNUTLS_EXTRA_VERSION)24
 b FB(for)31 b(a)f(suitable)h Fs(req_version)d FB(string.)390
 3210 y Fn(Return)k(v)-5 b(alue:)45 b FB(Chec)m(k)32 b(that)h(the)g(v)m
 (ersion)f(of)h(the)f(library)g(is)g(at)h(minim)m(um)f(the)g(one)g(giv)m
 (en)i(as)390 3320 y(a)j(string)f(in)h Fs(req_version)c
 FB(and)j(return)g(the)g(actual)i(v)m(ersion)f(string)g(of)g(the)g

(library;)i(return)390 3430 y Fs(NULL)31 b FB(if)i(the)g(condition)g
(is)g(not)g(met.)48 b(If)32 b Fs(NULL)g FB(is)g(passed)g(to)i(this)e
(function)h(no)f(c)m(hec)m(k)i(is)f(done)390 3539 y(and)d(only)g(the)h
(v)m(ersion)g(string)f(is)g(returned.)150 3748 y Fu(gn)m(utls)p
483 3748 37 5 v 55 w(global)p 856 3748 V 54 w(init)p
1094 3748 V 54 w(extra)3350 3954 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_global_init_ex)q(tr)f Fg(\()31
b Fe(void)12 b Fg(\()390 4064 y FB(This)30 b(function)g(initializes)i
(the)f(global)g(state)h(of)f(gn)m(utls-extra)g(library)f(to)i
(defaults.)390 4208 y(Note)f(that)g Fs(gnutls_global_init\()24
b FB(has)30 b(to)g(b)s(e)g(called)h(b)s(e)fore)e(this)h(function.)40
b(If)30 b(this)g(func-)390 4317 y(tion)h(is)f(not)h(called)g(then)g
(the)f(gn)m(utls-extra)i(library)e(will)h(not)f(b)s(e)g(usable.)390
4461 y(This)39 b(function)g(is)g(not)h(thread)f(safe,)j(see)e(the)f
(discussion)g(for)g Fs(gnutls_global_init\()34 b FB(on)390
4571 y(ho)m(w)c(to)i(deal)e(with)g(that.)390 4715 y Fn>Returns:)42
b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27 b FB(\(zero\))33
b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)390
4824 y(is)f(returned.)150 5071 y FA(9.4)68 b Fu(Op)s(enPGP)46
b FA(F)-11 b(unctions)150 5230 y FB(The)30 b(follo)m(wing)i(functions)e
(are)h(to)g(b)s(e)f(used)f(for)h Ft(Op)r(enPGP)g FB(cert\014cate)i
(handling.)41 b(Their)30 b(protot)m(yp)s(es)150 5340
y(lie)h(in)f(`)p Fs(gnutls/openpgp.h)p FB(`.p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(243)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(cert\014cate)p 1068
299 V 52 w(set)p 1272 299 V 54 w(op)s(enpgp)p 1779 299
V 56 w(k)m(ey)p 2018 299 V 53 w(\014le2)3350 500 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_certificate_se)q(t_op)q(enp)q
(gp_)q(key)q(_fil)q(e2)565 609 y Fg(\()p Ff(gn)m(utls)p
846 609 28 4 v 41 w(cert\014cate)p 1274 609 V 42 w(creden)m(tials)p
1737 609 V 41 w(t)31 b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)g(*)g
Fe(certfile)12 b Ff(,)32 b(const)f(c)m(har)g(*)565 719
y Fe(keyfile)12 b Ff(,)32 b(const)f(c)m(har)g(*)g Fe(subkey_id)12
b Ff(,)33 b(gn)m(utls)p 2296 719 V 40 w(op)s(enpgp)p
2673 719 V 39 w(cert)p 2823 719 V 40 w(fm)m(t)p 2999 719
V 41 w(t)d Fe(format)12 b Fg(\()390 829 y Ff(res)t FB(:)40
b(the)31 b(destination)g(con)m(text)h(to)f(sa)m(m)e)h(the)f(data.)390
967 y Ff(cert\014le)5 b FB(:)42 b(the)30 b(\014le)h(that)g(con)m(tains)
g(the)g(public)f(k)m(ey)-8 b(.)390 1106 y Ff(k)m(ey\014le)5
b FB(:)42 b(the)30 b(\014le)h(that)g(con)m(tains)g(the)g(secret)g(k)m
(ey)-8 b(.)390 1245 y Ff(subk)m(ey)p 667 1245 V 40 w(id)t
FB(:)40 b(a)30 b(hex)h(enco)s(ded)f(subk)m(ey)g(id)390
1384 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(the)f(k)m(ey)s)390
1522 y(This)36 b(fun)m(ction)g(is)h(used)f(to)i(load)f(Op)s(enPGP)e(k)m
(ey)s)j(in)m(to)f(the)g(Gn)m(u)Tls)f(creden)m(tial)i(structure.)390
1632 y(The)30 b(\014les)g(should)g(con)m(tain)h(non)f(encrypted)g(k)m

(eys.)390 1771 y(The)d(sp)s(ecial)i(k)m(eyw)m(ord)f Fs(")p
FB(auto)p Fs(")g FB(is)g(also)g(accepted)h(as)f Fs(subkey_id)p
FB(.)38 b(In)27 b(that)h(case)h(the)f Fs(gnutls_)390
1880 y(openpgp_crt_get_auth_sub)o(key\()o(\))c FB(will)31
b(b)s(e)f(used)f(to)j(retriev)m(e)f(the)g(subk)m(ey)-8
b(.)390 2019 y Fn>Returns:)36 b FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)390 2158 y Fn(Since:)41
b FB(2.4.0)150 2361 y Fu(gn)m(utls)p 483 2361 37 5 v
55 w(cert\014cate)p 1068 2361 V 52 w(set)p 1272 2361
V 54 w(op)s(enpgp)p 1779 2361 V 56 w(k)m(ey)p 2018 2361
V 53 w(\014le)3350 2562 y FB([F]-8 b(unction))-3599 b
Fh(int)53 b(gnutls_certificate_se)q(t_op)q(enp)q(gp_)q(key)q(_fil)q(e)
565 2672 y Fg(\()p Ff(gn)m(utls)p 846 2672 28 4 v 41
w(cert\014cate)p 1274 2672 V 42 w(creden)m(tials)p 1737
2672 V 41 w(t)31 b Fe(res)12 b Ff(,)31 b(const)g(c)m(har)g(*)g
Fe(certfile)12 b Ff(,)32 b(const)f(c)m(har)g(*)565 2781
y Fe(keyfile)12 b Ff(,)32 b(gn)m(utls)p 1244 2781 V 41
w(op)s(enpgp)p 1622 2781 V 39 w(crt)p 1772 2781 V 40
w(fm)m(t)p 1948 2781 V 40 w(t)f Fe(format)12 b Fg(\()390
2891 y Ff(res)t FB(:)40 b(the)31 b(destination)g(con)m(text)h(to)f(sa)m
(v)m(e)h(the)f(data.)390 3030 y Ff(cert\014le)5 b FB(:)42
b(the)30 b(\014le)h(that)g(con)m(tains)g(the)g(public)f(k)m(ey)-8
b(.)390 3168 y Ff(k)m(ey\014le)5 b FB(:)42 b(the)30 b(\014le)h(that)g
(con)m(tains)g(the)g(secret)g(k)m(ey)-8 b(.)390 3307
y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(the)f(k)m(ey)s390
3446 y(This)j(fun)m(ction)g(is)h(used)f(to)i(load)f(Op)s(enPGP)e(k)m
(eys)j(in)m(to)g(the)f(Gn)m(uTLS)e(creden)m(tials)j(structure.)390
3555 y(The)30 b(\014les)g(should)g(only)g(con)m(tain)i(one)e(k)m(ey)i
(whic)m(h)e(is)g(not)h(encrypted.)390 3694 y Fn>Returns:)36
b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21
b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
b(alue.)150 3897 y Fu(gn)m(utls)p 483 3897 37 5 v 55
w(cert\014cate)p 1068 3897 V 52 w(set)p 1272 3897 V
54 w(op)s(enpgp)p 1779 3897 V 56 w(k)m(ey)p 2018 3897
V 53 w(mem2)3350 4098 y FB([F]d(unction))-3599 b Fh(int)53
b(gnutls_certificate_se)q(t_op)q(enp)q(gp_)q(key)q(_mem)q(2)565
4208 y Fg(\()p Ff(gn)m(utls)p 846 4208 28 4 v 41 w(cert\014cate)p
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b Fe(res)12 b Ff(,)31 b(const)g(gn)m(utls)p 2546 4208
V 40 w(datum)p 2844 4208 V 40 w(t)g(*)f Fe(cert)12 b
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w(datum)p 1110 4318 V 39 w(t)f(*)g Fe(key)12 b Ff(,)31
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2806 4318 V 40 w(op)s(enpgp)p 3183 4318 V 39 w(crt)p
3333 4318 V 40 w(fm)m(t)p 3509 4318 V 41 w(t)565 4427
y Fe(format)12 b Fg(\()390 4537 y Ff(res)t FB(:)40 b(the)31
b(destination)g(con)m(text)h(to)f(sa)m(m(v)m(e)h(the)f(data.)390

4676 y Ff(cert)r FB(:)41 b(the)31 b(datum)f(that)h(con)m(tains)g(the)g
 (public)f(k)m(ey)-8 b(.)390 4814 y Ff(k)m(ey)8 b FB(:)41
 b(the)31 b(datum)f(that)h(con)m(tains)g(the)g(secret)g(k)m(ey)-8
 b(.)390 4953 y Ff(subk)m(ey)p 667 4953 V 40 w(id)t FB(:)40
 b(a)30 b(hex)h(enco)s(ded)f(subk)m(ey)g(id)390 5092 y
 Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(the)f(k)m(ey)s390
 5230 y(This)j(fun)m(tion)g(is)h(used)f(to)i(load)f(Op)s(enPGP)e(k)m
 (ey)sj(in)m(to)g(the)f(Gn)m(uTLS)e(creden)m(tials)j(structure.)390
 5340 y(The)30 b(\014les)g(should)g(only)g(con)m(tain)i(one)e(k)m(ey)i
 (whic)m(h)e(is)g(not)h(encrypted.)p eop end
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 b(F)-8 b(unction)31 b(Reference)2237 b(244)390 299 y(The)27
 b(sp)s(ecial)i(k)m(eyw)m(ord)f Fs("")p FB(auto)p Fs("")g
 FB(is)g(also)g(accepted)h(as)f Fs(subkey_id)p FB(.)38
 b(In)27 b(that)h(case)h(the)f Fs(gnutls_)390 408 y
 (openpgp_crt_get_auth_sub)o(key\()o\()c FB(will)31 b(b)s(e)f(used)f
 (to)j(retriev)m(e)f(the)g(subk)m(ey)-8 b(.)390 545 y
 Fn>Returns:)36 b FB(On)20 b(success,)j Fs(GNUTLS_E_SUCCESS)16
 b FB(is)21 b(returned,)h(otherwise)f(a)h(negativ)m(e)h(error)d(v)-5
 b(alue.)390 681 y Fn(Since:)41 b FB(2.4.0)150 882 y Fu(gn)m(utls)p
 483 882 37 5 v 55 w(cert\014cate)p 1068 882 V 52 w(set)p
 1272 882 V 54 w(op)s(enpgp)p 1779 882 V 56 w(k)m(ey)p
 2018 882 V 53 w(mem)3350 1081 y FB([F)-8 b(unction)]-3599
 b Fh(int)53 b(gnutls_certificate_se)q(t_op)q(enp)q(gp_)q(key)q(_mem)565
 1190 y Fg(\()p Ff(gn)m(utls)p 846 1190 28 4 v 41 w(cert\014cate)p
 1274 1190 V 42 w(creden)m(tials)p 1737 1190 V 41 w(t)31
 b Fe(res)12 b Ff(,)31 b(const)g(gn)m(utls)p 2546 1190
 V 40 w(datum)p 2844 1190 V 40 w(t)g(*)f Fe(cert)12 b
 Ff(,)32 b(const)565 1300 y(gn)m(utls)p 811 1300 V 41
 w(datum)p 1110 1300 V 39 w(t)f(*)g Fe(key)12 b Ff(,)31
 b(gn)m(utls)p 1755 1300 V 40 w(op)s(enpgp)p 2132 1300
 V 39 w(crt)p 2282 1300 V 40 w(fm)m(t)p 2458 1300 V 41
 w(t)f Fe(format)12 b Fg(\()390 1409 y Ff(res)t FB(:)40
 b(the)31 b(destination)g(con)m(text)h(to)f(sa)m(v)m(e)h(the)f(data.)390
 1546 y Ff(cert)r FB(:)41 b(the)31 b(datum)f(that)h(con)m(tains)g(the)g
 (public)f(k)m(ey)-8 b(.)390 1682 y Ff(k)m(ey)8 b FB(:)41
 b(the)31 b(datum)f(that)h(con)m(tains)g(the)g(secret)g(k)m(ey)-8
 b(.)390 1818 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(the)f(k)m
 (ey)s390 1955 y(This)36 b(fun)m(tion)g(is)h(used)f(to)i(load)f(Op)s
 (enPGP)e(k)m(ey)sj(in)m(to)f(the)g(Gn)m(uTLS)f(creden)m(tial)i
 (structure.)390 2064 y(The)30 b(\014les)g(should)g(con)m(tain)h(non)f
 (encrypted)g(k)m(ey)s.)390 2201 y Fn>Returns:)36 b FB(On)20
 b(success,)j Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)
 f(a)h(negativ)m(e)h(error)d(v)-5 b(alue.)150 2402 y Fu(gn)m(utls)p
 483 2402 37 5 v 55 w(cert\014cate)p 1068 2402 V 52 w(set)p
 1272 2402 V 54 w(op)s(enpgp)p 1779 2402 V 56 w(k)m(ey)ring)p
 2231 2402 V 54 w(\014le)3350 2600 y FB([F)d(unction)]-3599

b Fh(int)53 b(gnutls_certificate_se)q(t_op)q(enp)q(gp_)q(key)q(ring)q
(_fi)q(le)565 2710 y Fg(\()p Ff(gn)m(utls)p 846 2710
28 4 v 41 w(cert\014cate)p 1274 2710 V 42 w(creden)m(tials)p
1737 2710 V 41 w(t)31 b Fe(c)12 b Ff(,)31 b(const)f(c)m(har)h(*)g
Fe(file)12 b Ff(,)565 2819 y(gn)m(utls)p 811 2819 V 41
w(op)s(enpgp)p 1189 2819 V 38 w(cert)p 1338 2819 V 41
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2929 y Ff(c)6 b FB(:)41 b(A)30 b(cert\014cate)j(creden)m(tials)e
(structure)390 3065 y Ff(\014le)5 b FB(:)41 b(\014lename)30
b(of)h(the)g(k)m(eyring.)390 3201 y Ff(format)r FB(:)41
b(format)31 b(of)f(k)m(eyring.)390 3338 y(The)c(function)h(is)g(used)f
(to)i(set)f(k)m(eyrings)h(that)f(will)g(b)s(e)g(used)f(in)m(ternally)i
(b)m(y)e(v)-5 b(arious)27 b(Op)s(enPGP)390 3447 y(functions.)39
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(needed)f(for)h(an)g(op)s(erations.)39 b(The)25 b(k)m(eyring)390
3557 y(will)31 b(also)g(b)s(e)f(used)f(at)i(the)g(v)m(eri\014cation)h
(functions.)390 3693 y Fn>Returns:)k FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)150 3894 y Fu(gn)m(utls)p
483 3894 37 5 v 55 w(cert\014cate)p 1068 3894 V 52 w(set)p
1272 3894 V 54 w(op)s(enpgp)p 1779 3894 V 56 w(k)m(eyring)p
2231 3894 V 54 w(mem)3350 4093 y FB([F)d(unction)]-3599
b Fh(int)53 b(gnutls_certificate_se)q(t_op)q(enp)q(gp_)q(key)q(ring)q
(_me)q(m)565 4202 y Fg(\()p Ff(gn)m(utls)p 846 4202 28
4 v 41 w(cert\014cate)p 1274 4202 V 42 w(creden)m(tials)p
1737 4202 V 41 w(t)31 b Fe(c)12 b Ff(,)31 b(const)f(opaque)h(*)g
Fe(data)12 b Ff(,)31 b(size)p 3005 4202 V 41 w(t)g Fe(dlen)12
b Ff(,)565 4312 y(gn)m(utls)p 811 4312 V 41 w(op)s(enpgp)p
1189 4312 V 38 w(cert)p 1338 4312 V 41 w(fm)m(t)p 1515
4312 V 40 w(t)31 b Fe(format)12 b Fg(\))390 4422 y Ff(c)6
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4558 y Ff(data)p FB(:)41 b(bu\013er)30 b(with)g(k)m(eyring)h(data.)390
4694 y Ff(dlen)p FB(:)40 b(length)31 b(of)g(data)g(bu\013er.)390
4831 y Ff(format)r FB(:)41 b(the)31 b(format)f(of)h(the)f(k)m(eyring)
390 4967 y(The)c(function)h(is)g(used)f(to)i(set)f(k)m(eyrings)h(that)f
(will)g(b)s(e)g(used)f(in)m(ternally)i(b)m(y)e(v)-5 b(arious)27
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(an)g(op)s(erations.)39 b(The)25 b(k)m(eyring)390 5186
y(will)31 b(also)g(b)s(e)f(used)f(at)i(the)g(v)m(eri\014cation)h
(functions.)390 5322 y Fn>Returns:)k FB(On)20 b(success,)j
Fs(GNUTLS_E_SUCCESS)16 b FB(is)21 b(returned,)h(otherwise)f(a)h
(negativ)m(e)h(error)d(v)-5 b(alue.)p eop end
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299 V 52 w(set)p 1272 299 V 54 w(op)s(enpgp)p 1779 299

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Fh(int)53 b(gnutls_certificate_se)q(t_op)q(enp)q(gp_)q(key)565
607 y Fg(\()p Ff(gn)m(utls)p 846 607 28 4 v 41 w(cert\014cate)p
1274 607 V 42 w(creden)m(tials)p 1737 607 V 41 w(t)31
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2686 607 V 38 w(crt)p 2835 607 V 41 w(t)f Fe(crt)12 b
Ff(,)565 716 y(gn)m(utls)p 811 716 V 41 w(op)s(enpgp)p
1189 716 V 38 w(privk)m(ey)p 1520 716 V 41 w(t)30 b Fe(pkey)12
b Fg(\)390 826 y Ff(res)t FB(:)40 b(is)31 b(a)f Fs
(gnutls_certificate_credent)o(ials)o(_t)24 b FB(structure.)390
962 y Ff(pk)m(ey)8 b FB(:)41 b(is)30 b(an)g(op)s(enpgp)g(priv)-5
b(ate)30 b(k)m(ey)390 1097 y(This)d(function)h(sets)h(a)g
(cert\014cate/priv)-5 b(ate)31 b(k)m(ey)e(pair)f(in)g(the)h(gn)m(utls)
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3679 1097 V 42 w(t)390 1207 y(structure.)153 b(This)67
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(the)h(subk)m(ey)sf(of)g(the)h(cert\014cate)h(are)f(not)g(used.)390
1588 y Fn>Returns:)42 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27
b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)
390 1698 y(is)f(returned.)150 1899 y Fu(gn)m(utls)p 483
1899 37 5 v 55 w(op)s(enpgp)p 991 1899 V 55 w(crt)p 1199
1899 V 54 w(c)m(hec)m(k)p 1546 1899 V 52 w(hostname)3350
2097 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_ch)q
(eck_)q(hos)q(tna)q(me)f Fg(\()p Ff(gn)m(utls)p 2412
2097 28 4 v 40 w(op)s(enpgp)p 2789 2097 V 39 w(crt)p
2939 2097 V 41 w(t)565 2206 y Fe(key)12 b Ff(,)31 b(const)g(c)m(har)g
(*)f Fe(hostname)12 b Fg(\)390 2316 y Ff(k)m(ey)c FB(:)41
b(should)30 b(con)m(tain)h(a)g Fs(gnutls_openpgp crt_t)25
b FB(structure)390 2452 y Ff(hostname)5 b FB(:)41 b(A)31
b(n)m(ull)f(terminated)h(string)f(that)h(con)m(tains)h(a)e(DNS)h(name)
390 2588 y(This)i(function)g(will)g(c)m(hec)m(k)i(if)e(the)h(giv)m(en)g
(k)m(ey's)g(o)m(wner)g(matc)m(hes)g(the)g(giv)m(en)g(hostname.)50
b(This)390 2697 y(is)38 b(a)g(basic)g(implemen)m(tation)i(of)e(the)g
(matc)m(hing)h(describ)s(ed)i(RF)m(C2818)i(\(HTTPS\),)d(which)m(h)
390 2807 y(tak)m(es)32 b(in)m(to)f(accoun)m(t)h(wildcards.)390
2943 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)150 3143 y Fu(gn)m(utls)p
483 3143 37 5 v 55 w(op)s(enpgp)p 991 3143 V 55 w(crt)p
1199 3143 V 54 w(deinit)3350 3341 y FB([F]-8 b(unction))-3599
b Fh(void)54 b(gnutls_openpgp crt_deini)q(t)e Fg(\()p
Ff(gn)m(utls)p 2046 3341 28 4 v 40 w(op)s(enpgp)p 2423
3341 V 39 w(crt)p 2573 3341 V 41 w(t)30 b Fe(key)12 b
Fg(\)390 3451 y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)
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m(ey)g(structure.)150 3787 y Fu(gn)m(utls)p 483 3787
37 5 v 55 w(op)s(enpgp)p 991 3787 V 55 w(crt)p 1199 3787

V 54 w(exp)s(ort)3350 3985 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_ex)q(port)f Fg(\()p
Ff(gn)m(utls)p 1993 3985 28 4 v 41 w(op)s(enpgp)p 2371
3985 V 39 w(crt)p 2521 3985 V 40 w(t)31 b Fe(key)12 b
Ff(,)565 4095 y(gn)m(utls)p 811 4095 V 41 w(op)s(enpgp)p
1189 4095 V 38 w(crt)p 1338 4095 V 41 w(fm)m(t)p 1515
4095 V 40 w(t)31 b Fe(format)12 b Ff(,)32 b(v)m(oid)f(*)f
Fe(output_data)12 b Ff(,)34 b(size)p 3058 4095 V 41 w(t)c(*)565
4205 y Fe(output_data_size)12 b Fg(\()390 4314 y Ff(k)m(ey)c
FB(:)41 b(Holds)31 b(the)f(k)m(ey)-8 b(.)390 4450 y Ff(format)r
FB(:)41 b(One)30 b(of)g(gn)m(utls)p 1264 4450 V 41 w(op)s(enpgp)p
1642 4450 V 39 w(crt)p 1792 4450 V 40 w(fm)m(t)p 1968
4450 V 40 w(t)h(elemen)m(ts.)390 4586 y Ff(output)p 664
4586 V 40 w(data)p FB(:)41 b(will)31 b(con)m(tain)h(the)e(k)m(ey)h
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4831 y(size)c(of)g(parameters))390 4967 y(This)c(function)h(will)g
(con)m(v)m(ert)i(the)e(giv)m(en)h(k)m(ey)g(to)g(RA)-10
b(W)28 b(or)g(Base64)i(format.)40 b(If)28 b(the)g(bu\013er)f(pro-)390
5077 y(vided)k(is)h(not)h(long)f(Enough)g(to)g(hold)g(the)g(output,)g
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b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s
(de.)p eop end

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b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_au)q(th_)q(sub)q(key)f
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2842 521 V 39 w(crt)p 2992 521 V 40 w(t)565 631 y Fe(crt)12
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1413 631 V 38 w(k)m(eyid)p 1660 631 V 41 w(t)g Fe(keyid)12
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FB(:)41 b(the)30 b(struct)h(to)g(sa)m(v)m(e)h(the)e(k)m(eyid.)390
1061 y Ff(\015ag)8 b FB(:)41 b(Non)30 b(zero)h(indicates)h(that)f(a)f
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1222 y>Returns)e(the)i((64-bit)g(k)m(eyID)h(of)e(the)h(\014rst)e(v)-5
b(alid)32 b(Op)s(enPGP)e(subk)m(ey)h(mark)m(ed)g(for)g(authen)m(tica-
390 1331 y(tion.)41 b(If)29 b(\015ag)h(is)f(non)g(zero)h(and)f(no)g
(authen)m(tication)j(subk)m(ey)d(exists,)h(then)f(a)h(v)-5
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(for)(g(authen)m(tication.))60 b(If)35 b(\015ag)h(is)g(non)g(zero)h(and)
390 1660 y(no)29 b(authen)m(tication)i(subk)m(ey)e(exists,)h(then)f(a)g
(v)-5 b(alid)30 b(subk)m(ey)e(will)i(b)s(e)e(returned)g(ev)m(en)i(if)f
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1930 y Fn(Returns:):40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)150 2155 y Fu(gn)m(utls)p
483 2155 37 5 v 55 w(op)s(enpgp)p 991 2155 V 55 w(crt)p
1199 2155 V 54 w(get)p 1418 2155 V 54 w(creation)p 1904
2155 V 54 w(time)3350 2377 y FB([F]-8 b(unction))-3599
b Fh(time_t)54 b(gnutls_openpgp_crt_get)q(_cr)q(eat)q(ion)q(_tim)q(e)
565 2487 y Fg(\()p Ff(gn)m(utls)p 846 2487 28 4 v 41
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(k)m(ey)-8 b(.)390 2757 y(Get)31 b(k)m(ey)h(creation)f(time.)390
2917 y Fn(Returns:):40 b FB(the)31 b(timestamp)g(when)e(the)i(Op)s
(enPGP)e(k)m(ey)i(w)m(as)g(created.)150 3142 y Fu(gn)m(utls)p
483 3142 37 5 v 55 w(op)s(enpgp)p 991 3142 V 55 w(crt)p
1199 3142 V 54 w(get)p 1418 3142 V 54 w(expiration)p
2016 3142 V 54 w(time)3350 3365 y FB([F]-8 b(unction))-3599
b Fh(time_t)54 b(gnutls_openpgp_crt_get)q(_ex)q(pir)q(ati)q(on_t)q(ime)
565 3474 y Fg(\()p Ff(gn)m(utls)p 846 3474 28 4 v 41
w(op)s(enpgp)p 1224 3474 V 39 w(crt)p 1374 3474 V 40
w(t)31 b Fe(key)12 b Fg(\()390 3584 y Ff(k)m(ey)c FB(:)41
b(the)31 b(structure)f(that)h(con)m(tains)g(the)g(Op)s(enPGP)e(public)h
(k)m(ey)-8 b(.)390 3744 y(Get)31 b(k)m(ey)h(expiration)f(time.)41
b(A)31 b(v)-5 b(alue)30 b(of)h('0')g(means)f(that)h(the)g(k)m(ey)g(do)s
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b FB(the)31 b(time)g(when)e(the)i(Op)s(enPGP)e(k)m(ey)i(expires.)150
4130 y Fu(gn)m(utls)p 483 4130 37 5 v 55 w(op)s(enpgp)p
991 4130 V 55 w(crt)p 1199 4130 V 54 w(get)p 1418 4130
V 54 w(\014ngerprin)m(t)3350 4352 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp_crt_ge)q(t_fi)q(nge)q(rpr)q(int)f
Fg(\()p Ff(gn)m(utls)p 2464 4352 28 4 v 41 w(op)s(enpgp)p
2842 4352 V 39 w(crt)p 2992 4352 V 40 w(t)565 4462 y
Fe(key)12 b Ff(,)31 b(v)m(oid)g(*)g Fe(fpr)12 b Ff(,)31
b(size)p 1433 4462 V 41 w(t)f(*)h Fe(fprlen)12 b Fg(\()390
4571 y Ff(k)m(ey)c FB(:)41 b(the)31 b(ra)m(w)f(data)h(that)g(con)m
(tains)h(the)f(Op)s(enPGP)e(public)g(k)m(ey)-8 b(.)390
4732 y Ff(fpr)7 b FB(:)39 b(the)31 b(bu\013er)e(to)i(sa)m(v)m(e)h(the)f
(\014ngerprin)m(t,)e(m)m(ust)i(hold)f(at)h(least)g(20)h(b)m(ytes.)390
4892 y Ff(fprlen)p FB(:)40 b(the)30 b(in)m(teger)i(to)f(sa)m(v)m(e)h
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V 55 w(crt)p 1199 299 V 54 w(get)p 1418 299 V 54 w(k)m(ey)p
1655 299 V 53 w(id)3350 485 y FB([F)-8 b(unction)]-3599
b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_ke)q(y_i)q(d)e
Fg(\()p Ff(gn)m(utls)p 2202 485 28 4 v 41 w(op)s(enpgp)p
2580 485 V 39 w(crt)p 2730 485 V 40 w(t)31 b Fe(key)12
b Ff(,)565 595 y(gn)m(utls)p 811 595 V 41 w(op)s(enpgp)p
1189 595 V 38 w(k)m(eyid)p 1436 595 V 41 w(t)31 b Fe(keyid)12
b Fg(\()390 704 y Ff(k)m(ey)c FB(:)41 b(the)31 b(structure)f(that)h
(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)-8
b(.)390 834 y Ff(k)m(eyid)t FB(:)41 b(the)30 b(bu\013er)g(to)h(sa)m(v)m
(e)h(the)e(k)m(eyid.)390 963 y(Get)h(k)m(ey)h(id)e(string.)390
1092 y Fn>Returns:)40 b FB(the)31 b(64-bit)h(k)m(eyID)f(of)g(the)f(Op)s
(enPGP)f(k)m(ey)-8 b(.)390 1221 y Fn(Since:)41 b FB(2.4.0)150
1410 y Fu(gn)m(utls)p 483 1410 37 5 v 55 w(op)s(enpgp)p
991 1410 V 55 w(crt)p 1199 1410 V 54 w(get)p 1418 1410
V 54 w(k)m(ey)p 1655 1410 V 53 w(usage)3350 1596 y FB([F)-8
b(unction)]-3599 b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_ke)q(y_u)q
(sag)q(e)e Fg(\()p Ff(gn)m(utls)p 2359 1596 28 4 v 41
w(op)s(enpgp)p 2737 1596 V 39 w(crt)p 2887 1596 V 40
w(t)31 b Fe(key)12 b Ff(,)565 1706 y(unsigned)29 b(in)m(t)i(*)g
Fe(key_usage)12 b Fg(\()390 1816 y Ff(k)m(ey)c FB(:)41
b(should)30 b(con)m(tain)h(a)g(gn)m(utls)p 1528 1816
V 41 w(op)s(enpgp)p 1906 1816 V 38 w(crt)p 2055 1816
V 41 w(t)f(structure)390 1945 y Ff(k)m(ey)p 529 1945
V 41 w(usage)5 b FB(:)41 b(where)30 b(the)h(k)m(ey)g(usage)g(bits)f
(will)h(b)s(e)f(stored)390 2074 y(This)g(function)h(will)g(return)f
(certi\014cate's)j(k)m(ey)f(usage,)g(b)m(y)f(c)m(hec)m(king)i(the)e(k)m
(ey)h(algorithm.)43 b(The)390 2184 y(k)m(ey)30 b(usage)g(v)-5
b(alue)29 b(will)h(ORed)f(v)-5 b(alues)29 b(of)h(the:)40
b Fs(GNUTLS_KEY_DIGITAL_SIGNA)o(TURE)o FB(,)24 b Fs(GNUTLS_)390
2293 y(KEY_KEY_ENCIPHERMENT)p FB(.)390 2423 y Fn>Returns:)40
b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s
(de.)150 2611 y Fu(gn)m(utls)p 483 2611 37 5 v 55 w(op)s(enpgp)p
991 2611 V 55 w(crt)p 1199 2611 V 54 w(get)p 1418 2611
V 54 w(name)3350 2798 y FB([F)-8 b(unction)]-3599 b Fh(int)53
b(gnutls_openpgp crt_ge)q(t_na)q(me)f Fg(\()p Ff(gn)m(utls)p
2098 2798 28 4 v 41 w(op)s(enpgp)p 2476 2798 V 38 w(crt)p
2625 2798 V 41 w(t)31 b Fe(key)12 b Ff(,)30 b(in)m(t)565
2907 y Fe(idx)12 b Ff(,)31 b(c)m(har)g(*)g Fe(buf)12
b Ff(,)31 b(size)p 1436 2907 V 41 w(t)f(*)h Fe(sizeof_buf)12
b Fg(\()390 3017 y Ff(k)m(ey)c FB(:)41 b(the)31 b(structure)f(that)h

(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)-8
b(.)390 3146 y Ff(idx)6 b FB(:)41 b(the)30 b(index)g(of)h(the)f(ID)h
(to)g(extract)390 3275 y Ff(buf)16 b FB(:)41 b(a)31 b(p)s(oin)m(ter)f
(to)h(a)g(structure)f(to)h(hold)f(the)h(name)390 3405
y Ff(sizeof)p 610 3405 V 41 w(buf)17 b FB(:)48 b(holds)33
b(the)i(maxim)m(um)f(size)h(of)f Fs(buf)p FB(,)h(on)f(return)f(hold)h
(the)g(actual/required)h(size)390 3514 y(of)c Fs(buf)p
FB(.)390 3643 y(Extracts)g(the)g(userID)f(from)g(the)g(parsed)g(Op)s
(enPGP)f(k)m(ey)-8 b(.)390 3773 y Fn>Returns:)56 b Fs(GNUTLS_E_SUCCESS)
34 b FB(on)k(success,)i(and)e(if)g(the)g(index)g(of)g(the)h(ID)f(do)s
(es)g(not)g(exist)390 3882 y Fs(GNUTLS_E_REQUESTED_DATA_)o(NOT_)o(AVAI
o(LAB)o(LE)p FB(,)24 b(or)31 b(an)f(error)g(co)s(de.)150
4071 y Fu(gn)m(utls)p 483 4071 37 5 v 55 w(op)s(enpgp)p
991 4071 V 55 w(crt)p 1199 4071 V 54 w(get)p 1418 4071
V 54 w(pk)p 1605 4071 V 54 w(algorithm)3350 4257 y FB([F]-8
b(unction)]-3599 b Fh(gnutls_pk_algorithm_t)59 b
(gnutls_openpgp_cert_get_)q(pk_)q(algo)q(rit)q(hm)565
4367 y Fg(\()p Ff(gn)m(utls)p 846 4367 28 4 v 41 w(op)s(enpgp)p
1224 4367 V 39 w(crt)p 1374 4367 V 40 w(t)31 b Fe(key)12
b Ff(,)31 b(unsigned)e(in)m(t)i(*)g Fe(bits)12 b Fg(\()390
4477 y Ff(k)m(ey)c FB(:)41 b(is)31 b(an)f(Op)s(enPGP)f(k)m(ey)390
4606 y Ff(bits)t FB(:)40 b(if)31 b(bits)f(is)g(non)g(n)m(ull)g(it)h
(will)g(hold)f(the)h(size)g(of)f(the)h(parameters')g(in)f(bits)390
4735 y(This)g(function)g(will)g(return)g(the)g(public)g(k)m(ey)h
(algorithm)g(of)g(an)f(Op)s(enPGP)f(cert)014cate.)390
4864 y(If)g(bits)g(is)g(non)g(n)m(ull,)g(it)h(should)e(ha)m(v)m(e)i
(enough)f(size)h(to)g(hold)f(the)h(parameters)f(size)h(in)f(bits.)40
b(F)-8 b(or)390 4974 y(RSA)33 b(the)h(bits)f(returned)f(is)i(the)f(mo)s
(dulus.)49 b(F)-8 b(or)34 b(DSA)f(the)h(bits)f(returned)f(are)i(of)g
(the)g(public)390 5083 y(exp)s(onen)m(t.)390 5213 y Fn>Returns:)61
b FB(a)40 b(mem)m(b)s(er)g(of)h(the)g Fs(gnutls_pk_algorithm_t)34
b FB(en)m(umeration)41 b(on)g(success,)i(or)e(a)390 5322
y(negativ)m(e)33 b(v)-5 b(alue)30 b(on)h(error.)p eop
end
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V 55 w(crt)p 1199 299 V 54 w(get)p 1418 299 V 54 w(pk)p
1605 299 V 54 w(dsa)p 1835 299 V 54 w(ra)m(w)3350 484
y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_openpgp_cert_ge)q(t_pk)
q(_ds)q(a_r)q(aw)f Fg(\()p Ff(gn)m(utls)p 2412 484 28
4 v 40 w(op)s(enpgp)p 2789 484 V 39 w(crt)p 2939 484
V 41 w(t)565 593 y Fe(cert)12 b Ff(,)31 b(gn)m(utls)p
1035 593 V 41 w(datum)p 1334 593 V 39 w(t)g(*)g Fe(p)12
b Ff(,)30 b(gn)m(utls)p 1874 593 V 40 w(datum)p 2172
593 V 40 w(t)h(*)f Fe(q)12 b Ff(,)31 b(gn)m(utls)p 2713
593 V 40 w(datum)p 3011 593 V 40 w(t)f(*)h Fe(g)12 b

Ff(.),565 703 y(gn)m(utls)p 811 703 V 41 w(datum)p 1110
703 V 39 w(t)31 b(*)g Fe(y)12 b Fg(\)390 813 y Ff(crt)r
FB(:)41 b(Holds)31 b(the)f(cert\014cate)390 941 y Ff(p)s
FB(:)40 b(will)31 b(hold)f(the)g(p)390 1070 y Ff(q)r
FB(:)41 b(will)30 b(hold)g(the)h(q)390 1198 y Ff(g)8
b FB(:)41 b(will)31 b(hold)f(the)g(g)390 1327 y Ff(y)8
b FB(:)40 b(will)31 b(hold)f(the)h(y)390 1455 y(This)37
b(function)g(will)g(exp)s(ort)h(the)f(DSA)h(public)e(k)m(ey's)i
(parameters)g(found)e(in)h(the)h(giv)m(en)g(ce-)390
1565 y(ti\014cate.)58 b(The)36 b(new)f(parameters)h(will)g(b)s(e)f
(allo)s(cated)j(using)d Fs(gnutls_malloc(\))c FB(and)36
b(will)g(b)s(e)390 1675 y(stored)30 b(in)h(the)f(appropriate)h(datum.)
390 1803 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b
FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 1932
y Fn(Since:)41 b FB(2.4.0)150 2119 y Fu(gn)m(utls)p 483
2119 37 5 v 55 w(op)s(enpgp)p 991 2119 V 55 w(crt)p 1199
2119 V 54 w(get)p 1418 2119 V 54 w(pk)p 1605 2119 V 54
w(rsa)p 1817 2119 V 54 w(ra)m(w)3350 2304 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_pk)q(rs)q
(a_r)q(aw)f Fg(\)p Ff(gn)m(utls)p 2412 2304 28 4 v 40
w(op)s(enpgp)p 2789 2304 V 39 w(crt)p 2939 2304 V 41
w(t)565 2414 y Fe(crt)12 b Ff(,)31 b(gn)m(utls)p 1035
2414 V 41 w(datum)p 1334 2414 V 39 w(t)g(*)g Fe(m)12
b Ff(,)30 b(gn)m(utls)p 1874 2414 V 40 w(datum)p 2172
2414 V 40 w(t)h(*)f Fe(e)12 b Fg(\)390 2523 y Ff(crt)r
FB(:)41 b(Holds)31 b(the)f(cert\014cate)390 2652 y Ff(m)p
FB(:)40 b(will)31 b(hold)f(the)h(mo)s(dulus)390 2781
y Ff(e)5 b FB(:)41 b(will)31 b(hold)f(the)g(public)g(exp)s(onen)m(t)390
2909 y(This)h(function)g(will)g(exp)s(ort)g(the)h(RSA)f(public)f(k)m
(ey's)i(parameters)g(found)e(in)h(the)h(giv)m(en)g(struc-)390
3019 y(ture.)38 b(The)21 b(new)h(parameters)h(will)f(b)s(e)g(allo)s
(cated)i(using)d Fs(gnutls_malloc(\))d FB(and)k(will)g(b)s(e)g(stored)
390 3128 y(in)30 b(the)h(appropriate)f(datum.)390 3257
y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(otherwise)h(an)f(error.)390 3385 y Fn(Since:)41
b FB(2.4.0)150 3573 y Fu(gn)m(utls)p 483 3573 37 5 v
55 w(op)s(enpgp)p 991 3573 V 55 w(crt)p 1199 3573 V 54
w(get)p 1418 3573 V 54 w(preferred)p 1963 3573 V 55 w(k)m(ey)p
2201 3573 V 53 w(id)3350 3758 y FB([F]-8 b(unction])-3599
b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_pr)q(efe)q(rre)q(d_k)q(ey_i)q
(d)565 3867 y Fg(\)p Ff(gn)m(utls)p 846 3867 28 4 v
41 w(op)s(enpgp)p 1224 3867 V 39 w(crt)p 1374 3867 V
40 w(t)31 b Fe(key)12 b Ff(,)31 b(gn)m(utls)p 1944 3867
V 40 w(op)s(enpgp)p 2321 3867 V 39 w(k)m(eyid)p 2569
3867 V 41 w(t)f Fe(keyid)12 b Fg(\)390 3977 y Ff(k)m(ey)c
FB(:)41 b(the)31 b(structure)f(that)h(con)m(tains)g(the)g(Op)s(enPGP)e
(public)h(k)m(ey)-8 b(.)390 4106 y Ff(k)m(eyid)t FB(:)41
b(the)30 b(struct)h(to)g(sa)m(v)m(e)h(the)e(k)m(eyid.)390

4234 y(Get)h(preferred)f(k)m(ey)h(id.)40 b(If)30 b(it)h(hasn't)f(b)s
(een)g(set)h(it)g(returns)e Fs(GNUTLS_E_INVALID_REQUEST)o(T)p
FB(.)390 4363 y Fn>Returns:)40 b FB(the)31 b(64-bit)h(preferred)d(k)m
(eyID)i(of)g(the)f(Op)s(enPGP)f(k)m(ey)-8 b(.)150 4550
y Fu(gn)m(utls)p 483 4550 37 5 v 55 w(op)s(enpgp)p 991
4550 V 55 w(crt)p 1199 4550 V 54 w(get)p 1418 4550 V
54 w(rev)m(ok)m(ed)p 1887 4550 V 53 w(status)3350 4735
y FB([F]g(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_re)q
(vok)q(ed_)q(sta)q(tus)565 4845 y Fg(\()p Ff(gn)m(utls)p
846 4845 28 4 v 41 w(op)s(enpgp)p 1224 4845 V 39 w(crt)p
1374 4845 V 40 w(t)31 b Fe(key)12 b Fg(\()390 4954 y
Ff(k)m(ey)c FB(:)41 b(the)31 b(structure)f(that)h(con)m(tains)g(the)g
(Op)s(enPGP)e(public)h(k)m(ey)-8 b(.)390 5083 y(Get)31
b(rev)m(o)s(cation)i(status)d(of)h(k)m(ey)-8 b(.)390
5211 y Fn>Returns:)40 b FB(true)31 b(\(1\))g(if)f(the)h(k)m(ey)g(has)f
(b)s(een)g(rev)m(ok)m(ed.)i(or)e(false)h(\(0\))h(if)e(it)h(has)f(not.)
390 5340 y Fn(Since:)41 b FB(2.4.0)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(249)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(op)s(enpgp)p 991 299
V 55 w(crt)p 1199 299 V 54 w(get)p 1418 299 V 54 w(subk)m(ey)p
1839 299 V 54 w(coun)m(t)3350 507 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_su)q(bke)q(y_c)q(oun)q(t)e
Fg(\()p Ff(gn)m(utls)p 2516 507 28 4 v 41 w(op)s(enpgp)p
2894 507 V 39 w(crt)p 3044 507 V 40 w(t)565 617 y Fe(key)12
b Fg(\()390 726 y Ff(k)m(ey)c FB(:)41 b(is)31 b(an)f(Op)s(enPGP)f(k)m
(ey)390 872 y(This)i(function)g(will)h(return)e(the)i(n)m(um)m(b)s(er)e
(of)i(subk)m(ey)s)f(presen)m(t)h(in)f(the)h(giv)m(en)g(Op)s(enPGP)e
(cer-)390 982 y(ti\014cate.)390 1128 y Fn>Returns:)40
b FB(the)31 b(n)m(um)m(b)s(er)e(of)i(subk)m(ey)s.)f(or)g(a)h(negativ)m
(e)h(v)-5 b(alue)31 b(on)f(error.)390 1274 y Fn(Since:)41
b FB(2.4.0)150 1484 y Fu(gn)m(utls)p 483 1484 37 5 v
55 w(op)s(enpgp)p 991 1484 V 55 w(crt)p 1199 1484 V 54
w(get)p 1418 1484 V 54 w(subk)m(ey)p 1839 1484 V 54 w(creation)p
2325 1484 V 54 w(time)3350 1692 y FB([F]-8 b(unction))-3599
b Fh(time_t)54 b(gnutls_openpgp crt_get)q(_su)q(bke)q(y_c)q(reat)q(ion)
q(_ti)q(me)565 1802 y Fg(\()p Ff(gn)m(utls)p 846 1802
28 4 v 41 w(op)s(enpgp)p 1224 1802 V 39 w(crt)p 1374
1802 V 40 w(t)31 b Fe(key)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(idx)12 b Fg(\()390 1912 y Ff(k)m(ey)c FB(:)41 b(the)31
b(structure)f(that)h(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)
-8 b(.)390 2057 y Ff(idx)6 b FB(:)41 b(the)30 b(subk)m(ey)g(index)390
2203 y(Get)h(subk)m(ey)f(creation)i(time.)390 2349 y
Fn>Returns:)40 b FB(the)31 b(timestamp)g(when)e(the)i(Op)s(enPGP)e
(sub-k)m(ey)h(w)m(as)h(created.)390 2495 y Fn(Since:)41
b FB(2.4.0)150 2706 y Fu(gn)m(utls)p 483 2706 37 5 v
55 w(op)s(enpgp)p 991 2706 V 55 w(crt)p 1199 2706 V 54

w(get)p 1418 2706 V 54 w(subk)m(ey)p 1839 2706 V 54 w(expiration)p
2437 2706 V 54 w(time)3350 2914 y FB([F]-8 b(unction))-3599
b Fh(time_t)54 b(gnutls_openpgp_cert_get)q(_su)q(bke)q(y_e)q(xpir)q(ati)
q(on_)q(time)565 3024 y Fg(\()p Ff(gn)m(utls)p 846 3024
28 4 v 41 w(op)s(enpgp)p 1224 3024 V 39 w(cert)p 1374
3024 V 40 w(t)31 b Fe(key)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(idx)12 b Fg(\()390 3133 y Ff(k)m(ey)c FB(:)41 b(the)31
b(structure)f(that)h(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)
-8 b(.)390 3279 y Ff(idx)6 b FB(:)41 b(the)30 b(subk)m(ey)g(index)390
3425 y(Get)h(subk)m(ey)f(expiration)h(time.)42 b(A)30
b(v)-5 b(alue)31 b(of)g('0')g(means)f(that)h(the)g(k)m(ey)g(do)s(esn't)
f(expire)h(at)g(all.)390 3571 y Fn>Returns:)40 b FB(the)31
b(time)g(when)e(the)i(Op)s(enPGP)e(k)m(ey)i(expires.)390
3717 y Fn(Since:)41 b FB(2.4.0)150 3928 y Fu(gn)m(utls)p
483 3928 37 5 v 55 w(op)s(enpgp)p 991 3928 V 55 w(cert)p
1199 3928 V 54 w(get)p 1418 3928 V 54 w(subk)m(ey)p 1839
3928 V 54 w(\014ngerprin)m(t)3350 4136 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp_cert_ge)q(t_su)q(bke)q(y_f)q(ing)q(erpr)q
(int)565 4245 y Fg(\()p Ff(gn)m(utls)p 846 4245 28 4
v 41 w(op)s(enpgp)p 1224 4245 V 39 w(cert)p 1374 4245
V 40 w(t)31 b Fe(key)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(idx)12 b Ff(,)31 b(v)m(oid)g(*)g Fe(fpr)12 b Ff(,)31
b(size)p 3084 4245 V 41 w(t)f(*)h Fe(fprlen)12 b Fg(\()390
4355 y Ff(k)m(ey)c FB(:)41 b(the)31 b(ra)m(w)f(data)h(that)g(con)m
(tains)h(the)f(Op)s(enPGP)e(public)g(k)m(ey)-8 b(.)390
4501 y Ff(idx)6 b FB(:)41 b(the)30 b(subk)m(ey)g(index)390
4647 y Ff(fpr)7 b FB(:)39 b(the)31 b(bu\013er)e(to)i(sa)m(v)m(e)h(the)f
(\014ngerprin)m(t),e(m)m(ust)i(hold)f(at)h(least)g(20)h(b)m(ytes.)390
4793 y Ff(fprlen)p FB(:)40 b(the)30 b(in)m(eger)i(to)f(sa)m(v)m(e)h
(the)f(length)f(of)h(the)g(\014ngerprin)m(t.)390 4939
y(Get)i(k)m(ey)f(\014ngerprin)m(t)f(of)h(a)g(subk)m(ey)-8
b(.)45 b(Dep)s(ending)31 b(on)h(the)g(algorithm,)h(the)f(\014ngerprin)m
(t)f(can)h(b)s(e)390 5048 y(16)f(or)g(20)g(b)m(ytes.)390
5194 y Fn>Returns:)40 b FB(On)30 b(success,)h(0)g(is)f(returned.)39
b(Otherwise,)31 b(an)f(error)g(co)s(de.)390 5340 y Fn(Since:)41
b FB(2.4.0)p eop end
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Fu(gn)m(utls)p 483 299 37 5 v 55 w(op)s(enpgp)p 991 299
V 55 w(cert)p 1199 299 V 54 w(get)p 1418 299 V 54 w(subk)m(ey)p
1839 299 V 54 w(idx)3350 494 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp_cert_ge)q(t_su)q(bke)q(y_i)q(dx)f
Fg(\()p Ff(gn)m(utls)p 2412 494 28 4 v 40 w(op)s(enpgp)p
2789 494 V 39 w(cert)p 2939 494 V 41 w(t)565 603 y Fe(key)12
b Ff(,)31 b(const)g(gn)m(utls)p 1273 603 V 40 w(op)s(enpgp)p
1650 603 V 39 w(k)m(eyid)p 1898 603 V 41 w(t)g Fe(keyid)12
b Fg(\()390 713 y Ff(k)m(ey)c FB(:)41 b(the)31 b(structure)f(that)h

(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)-8
b(.)390 846 y Ff(k)m(eyid)t FB(:)41 b(the)30 b(k)m(eyid.)390
980 y(Get)h(subk)m(ey's)g(index.)390 1113 y Fn>Returns:)40
b FB(the)31 b(index)f(of)g(the)h(subk)m(ey)f(or)g(a)h(negativ)m(e)i
(error)d(v)-5 b(alue.)390 1247 y Fn(Since:)41 b FB(2.4.0)150
1444 y Fu(gn)m(utls)p 483 1444 37 5 v 55 w(op)s(enpgp)p
991 1444 V 55 w(crt)p 1199 1444 V 54 w(get)p 1418 1444
V 54 w(subk)m(ey)p 1839 1444 V 54 w(id)3350 1639 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_openpgp_crt_ge)q(t_su)q(bke)q
(y_i)q(d)e Fg(\()p Ff(gn)m(utls)p 2359 1639 28 4 v 41
w(op)s(enpgp)p 2737 1639 V 39 w(crt)p 2887 1639 V 40
w(t)31 b Fe(key)12 b Ff(,)565 1748 y(unsigned)29 b(in)m(t)i
Fe(idx)12 b Ff(,)31 b(gn)m(utls)p 1553 1748 V 41 w(op)s(enpgp)p
1931 1748 V 39 w(k)m(eyid)p 2179 1748 V 40 w(t)g Fe(keyid)12
b Fg(\()390 1858 y Ff(k)m(ey)c FB(:)41 b(the)31 b(structure)f(that)h
(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)-8
b(.)390 1992 y Ff(idx)6 b FB(:)41 b(the)30 b(subk)m(ey)g(index)390
2125 y Ff(k)m(eyid)t FB(:)41 b(the)30 b(bu\013er)g(to)h(sa)m(v)m(e)h
(the)e(k)m(eyid.)390 2259 y(Get)h(the)g(subk)m(ey's)f(k)m(ey-id.)390
2392 y Fn>Returns:)40 b FB(the)31 b(64-bit)h(k)m(eyID)f(of)g(the)f(Op)s
(enPGP)f(k)m(ey)-8 b(.)150 2589 y Fu(gn)m(utls)p 483
2589 37 5 v 55 w(op)s(enpgp)p 991 2589 V 55 w(crt)p 1199
2589 V 54 w(get)p 1418 2589 V 54 w(subk)m(ey)p 1839 2589
V 54 w(pk)p 2026 2589 V 54 w(algorithm)3350 2784 y FB([F]g(unction])
-3599 b Fh(gnutls_pk_algorithm_t)565 2894 y(gnutls_openpgp_crt_get)q
(_su)q(bke)q(y_p)q(k_al)q(gor)q(ith)q(m)51 b Fg(\()p
Ff(gn)m(utls)p 3088 2894 28 4 v 41 w(op)s(enpgp)p 3466
2894 V 39 w(crt)p 3616 2894 V 40 w(t)565 3003 y Fe(key)12
b Ff(,)31 b(unsigned)e(in)m(t)i Fe(idx)12 b Ff(,)31 b(unsigned)f(in)m
(t)g(*)h Fe(bits)12 b Fg(\()390 3113 y Ff(k)m(ey)c FB(:)41
b(is)31 b(an)f(Op)s(enPGP)f(k)m(ey)390 3246 y Ff(idx)6
b FB(:)41 b(is)30 b(the)h(subk)m(ey)f(index)390 3380
y Ff(bits)t FB(:)40 b(if)31 b(bits)f(is)g(non)g(n)m(ull)g(it)h(will)g
(hold)f(the)h(size)g(of)f(the)h(parameters')g(in)f(bits)390
3513 y(This)j(function)g(will)g(return)g(the)g(public)g(k)m(ey)h
(algorithm)g(of)g(a)g(subk)m(ey)f(of)g(an)g(Op)s(enPGP)f(cer-)390
3623 y(ti\014cate.)390 3756 y(If)d(bits)g(is)g(non)g(n)m(ull,)g(it)h
(should)e(ha)m(v)m(e)i(enough)f(size)h(to)g(hold)f(the)h(parameters)f
(size)h(in)f(bits.)40 b(F)-8 b(or)390 3866 y(RSA)33 b(the)h(bits)f
(returned)f(is)i(the)f(mo)s(dulus.)49 b(F)-8 b(or)34
b(DSA)f(the)h(bits)f(returned)f(are)i(of)g(the)g(public)390
3976 y(exp)s(onen)m(t.)390 4109 y Fn>Returns:)61 b FB(a)40
b(mem)m(b)s(er)g(of)h(the)g Fs(gnutls_pk_algorithm_t)34
b FB(en)m(umeration)41 b(on)g(success,)i(or)e(a)390 4219
y(negativ)m(e)33 b(v)-5 b(alue)30 b(on)h(error.)390 4352
y Fn(Since:)41 b FB(2.4.0)150 4549 y Fu(gn)m(utls)p 483
4549 37 5 v 55 w(op)s(enpgp)p 991 4549 V 55 w(crt)p 1199
4549 V 54 w(get)p 1418 4549 V 54 w(subk)m(ey)p 1839 4549

V 54 w(pk)p 2026 4549 V 54 w(dsa)p 2256 4549 V 54 w(ra)m(w)3350
4744 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_ge)q
(t_su)q(bke)q(y_p)q(k_d)q(sa_r)q(aw)565 4854 y Fg(\()p
Ff(gn)m(utls)p 846 4854 28 4 v 41 w(op)s(enpgp)p 1224
4854 V 39 w(crt)p 1374 4854 V 40 w(t)31 b Fe(crt)12 b
Ff(,)31 b(unsigned)e(in)m(t)i Fe(idx)12 b Ff(,)31 b(gn)m(utls)p
2686 4854 V 40 w(datum)p 2984 4854 V 40 w(t)g(*)f Fe(p)12
b Ff(,)565 4963 y(gn)m(utls)p 811 4963 V 41 w(datum)p
1110 4963 V 39 w(t)31 b(*)g Fe(q)12 b Ff(,)30 b(gn)m(utls)p
1650 4963 V 40 w(datum)p 1948 4963 V 40 w(t)h(*)f Fe(g)12
b Ff(,)31 b(gn)m(utls)p 2489 4963 V 40 w(datum)p 2787
4963 V 40 w(t)f(*)h Fe(y)12 b Fg(\()390 5073 y Ff(crt)r
FB(:)41 b(Holds)31 b(the)f(cert\014cate)390 5206 y Ff(idx)6
b FB(:)41 b(Is)30 b(the)g(subk)m(ey)g(index)390 5340
y Ff(p)s FB(:)40 b(will)31 b(hold)f(the)g(p)p eop end
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Ff(q)r FB(:)41 b(will)30 b(hold)g(the)h(q)390 434 y Ff(g)8
b FB(:)41 b(will)31 b(hold)f(the)g(g)390 568 y Ff(y)8
b FB(:)40 b(will)31 b(hold)f(the)h(y)390 703 y(This)37
b(function)g(will)g(exp)s(ort)h(the)f(DSA)h(public)e(k)m(ey's)i
(parameters)g(found)e(in)h(the)h(giv)m(en)g(ser-)390
813 y(ti\014cate.)58 b(The)36 b(new)f(parameters)h(will)g(b)s(e)f(allo
s(cated)j(using)d Fs(gnutls_malloc(\()c FB(and)36 b(will)g(b)s(e)390
922 y(stored)30 b(in)h(the)f(appropriate)h(datum.)390
1057 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(otherwise)h(an)f(error.)390 1192 y Fn(Since:)41
b FB(2.4.0)150 1392 y Fu(gn)m(utls)p 483 1392 37 5 v
55 w(op)s(enpgp)p 991 1392 V 55 w(crt)p 1199 1392 V 54
w(get)p 1418 1392 V 54 w(subk)m(ey)p 1839 1392 V 54 w(pk)p
2026 1392 V 54 w(rsa)p 2238 1392 V 54 w(ra)m(w)3350 1589
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_su)
q(bke)q(y_p)q(k_r)q(sa_r)q(aw)565 1698 y Fg(\()p Ff(gn)m(utls)p
846 1698 28 4 v 41 w(op)s(enpgp)p 1224 1698 V 39 w(crt)p
1374 1698 V 40 w(t)31 b Fe(crt)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(idx)12 b Ff(,)31 b(gn)m(utls)p 2686 1698 V 40 w(datum)p
2984 1698 V 40 w(t)g(*)f Fe(m)12 b Ff(,)565 1808 y(gn)m(utls)p
811 1808 V 41 w(datum)p 1110 1808 V 39 w(t)31 b(*)g Fe(e)12
b Fg(\()390 1917 y Ff(crt)r FB(:)41 b(Holds)31 b(the)f(cert\014cate)
390 2052 y Ff(idx)6 b FB(:)41 b(Is)30 b(the)g(subk)m(ey)g(index)390
2187 y Ff(m)p FB(:)40 b(will)31 b(hold)f(the)h(mo)s(dulus)390
2322 y Ff(e)5 b FB(:)41 b(will)31 b(hold)f(the)g(public)g(exp)s(onen)m
(t)390 2457 y(This)h(function)g(will)g(exp)s(ort)g(the)h(RSA)f(public)f
(k)m(ey's)i(parameters)g(found)e(in)h(the)h(giv)m(en)g(struc-)390
2566 y(ture.)38 b(The)21 b(new)h(parameters)h(will)f(b)s(e)g(allo)s
(cated)i(using)d Fs(gnutls_malloc(\()d FB(and)k(will)g(b)s(e)g(stored)
390 2676 y(in)30 b(the)h(appropriate)f(datum.)390 2811

y Fn(Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(otherwise)h(an)f(error.)390 2946 y Fn(Since:)41
b FB(2.4.0)150 3145 y Fu(gn)m(utls)p 483 3145 37 5 v
55 w(op)s(engpgp)p 991 3145 V 55 w(crt)p 1199 3145 V 54
w(get)p 1418 3145 V 54 w(subk)m(ey)p 1839 3145 V 54 w(rev)m(ok)m(ed)p
2308 3145 V 53 w(status)3350 3342 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_su)q(bke)q(y_r)q(evo)q(ked_)q
(sta)q(tus)565 3452 y Fg(\()p Ff(gn)m(utls)p 846 3452
28 4 v 41 w(op)s(engpgp)p 1224 3452 V 39 w(crt)p 1374
3452 V 40 w(t)31 b Fe(key)12 b Ff(,)31 b(unsigned)e(in)m(t)i
Fe(idx)12 b Fg(\()390 3561 y Ff(k)m(ey)c FB(:)41 b(the)31
b(structure)f(that)h(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)
-8 b(.)390 3696 y Ff(idx)6 b FB(:)41 b(is)30 b(the)h(subk)m(ey)f(index)
390 3831 y(Get)h(subk)m(ey)f(rev)m(o)s(cation)j(status.)41
b(A)30 b(negativ)m(e)j(v)-5 b(alue)31 b(indicates)g(an)f(error.)390
3966 y Fn(Returns:)40 b FB(true)31 b(\(1\))g(if)h(the)h(k)m(ey)g(has)f
(b)s(een)g(rev)m(ok)m(ed,)i(or)e(false)h(\(0\))h(if)e(it)h(has)f(not.)
390 4101 y Fn(Since:)41 b FB(2.4.0)150 4300 y Fu(gn)m(utls)p
483 4300 37 5 v 55 w(op)s(engpgp)p 991 4300 V 55 w(crt)p
1199 4300 V 54 w(get)p 1418 4300 V 54 w(subk)m(ey)p 1839
4300 V 54 w(usage)3350 4497 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_su)q(bke)q(y_u)q(sag)q(e)
Fg(\()p Ff(gn)m(utls)p 2516 4497 28 4 v 41 w(op)s(engpgp)p
2894 4497 V 39 w(crt)p 3044 4497 V 40 w(t)565 4607 y
Fe(key)12 b Ff(,)31 b(unsigned)e(in)m(t)i Fe(idx)12 b
Ff(,)31 b(unsigned)f(in)m(t)g(*)h Fe(key_usage)12 b Fg(\()390
4716 y Ff(k)m(ey)c FB(:)41 b(should)30 b(con)m(tain)h(a)g(gn)m(utls)p
1528 4716 V 41 w(op)s(engpgp)p 1906 4716 V 38 w(crt)p
2055 4716 V 41 w(t)f(structure)390 4851 y Ff(idx)6 b
FB(:)41 b(the)30 b(subk)m(ey)g(index)390 4986 y Ff(k)m(ey)p
529 4986 V 41 w(usage)5 b FB(:)41 b(where)30 b(the)h(k)m(ey)g(usage)g
(bits)f(will)h(b)s(e)f(stored)390 5121 y(This)g(function)h(will)g
(return)f(cert)014cate's)j(k)m(ey)f(usage,)g(b)m(y)f(c)m(hec)m(king)i
(the)e(k)m(ey)h(algorithm.)43 b(The)390 5230 y(k)m(ey)f(usage)f(v)-5
b(alue)42 b(will)f(ORed)g(v)-5 b(alues)41 b(of)h Fs
(GNUTLS_KEY_DIGITAL_SIGN)o(ATU)o(RE)35 b FB(or)41 b Fs(GNUTLS_)390
5340 y(KEY_KEY_ENCIPHERMENT)p FB(.)p eop end
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b(negativ)m(e)j(v)-5 b(alue)31 b(ma)m(y)g(b)s(e)f(returned)f(in)h(case)
h(of)g(parsing)f(error.)390 450 y Fn(Returns:)40 b FB(k)m(ey)32
b(usage)f(v)-5 b(alue.)390 602 y Fn(Since:)41 b FB(2.4.0)150
818 y Fu(gn)m(utls)p 483 818 37 5 v 55 w(op)s(engpgp)p
991 818 V 55 w(crt)p 1199 818 V 54 w(get)p 1418 818 V
54 w(v)m(ersion)3350 1032 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_ge)q(t_ve)q(rsi)q(on)f
Fg(\()p Ff(gn)m(utls)p 2255 1032 28 4 v 41 w(op)s(engpgp)p

2633 1032 V 38 w(crt)p 2782 1032 V 41 w(t)30 b Fe(key)12
b Fg(\)390 1142 y Ff(k)m(ey)c FB(:)41 b(the)31 b(structure)f(that)h
(con)m(tains)g(the)g(Op)s(enPGP)e(public)h(k)m(ey)-8
b(.)390 1294 y(Extract)31 b(the)g(v)m(ersion)g(of)f(the)h(Op)s(enPGP)e
(k)m(ey)-8 b(.)390 1445 y Fn>Returns:)40 b FB(the)31
b(v)m(ersion)g(n)m(um)m(b)s(er)e(is)h(returned,)g(or)g(a)h(negativ)m(e)
h(v)-5 b(alue)31 b(on)g(errors.)150 1662 y Fu(gn)m(utls)p
483 1662 37 5 v 55 w(op)s(enpgp)p 991 1662 V 55 w(crt)p
1199 1662 V 54 w(imp)s(ort)3350 1875 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_im)q(port)f Fg(\)p
Ff(gn)m(utls)p 1993 1875 28 4 v 41 w(op)s(enpgp)p 2371
1875 V 39 w(crt)p 2521 1875 V 40 w(t)31 b Fe(key)12 b
Ff(,)31 b(const)565 1985 y(gn)m(utls)p 811 1985 V 41
w(datum)p 1110 1985 V 39 w(t)g(*)g Fe(data)12 b Ff(,)31
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V 39 w(crt)p 2334 1985 V 40 w(fm)m(t)p 2510 1985 V 41
w(t)f Fe(format)12 b Fg(\)390 2095 y Ff(k)m(ey)c FB(:)41
b(The)30 b(structure)g(to)h(store)g(the)g(parsed)e(k)m(ey)-8
b(.)390 2246 y Ff(data)p FB(:)41 b(The)30 b(RA)-10 b(W)31
b(or)f(BASE64)i(enco)s(ded)e(k)m(ey)-8 b(.)390 2398 y
Ff(format)r FB(:)41 b(One)30 b(of)g(gn)m(utls)p 1264
2398 V 41 w(op)s(enpgp)p 1642 2398 V 39 w(crt)p 1792
2398 V 40 w(fm)m(t)p 1968 2398 V 40 w(t)h(elemen)m(ts.)390
2549 y(This)46 b(function)h(will)g(con)m(v)m(ert)i(the)e(giv)m(en)h(RA)
-10 b(W)48 b(or)f(Base64)i(enco)s(ded)e(k)m(ey)h(to)f(the)h(nativ)m(e)
390 2659 y Fs(gnutls_openpgp crt_t)25 b FB(format.)41
b(The)30 b(output)g(will)g(b)s(e)g(stored)h(in)f('k)m(ey').)390
2811 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)150 3027 y Fu(gn)m(utls)p
483 3027 37 5 v 55 w(op)s(enpgp)p 991 3027 V 55 w(crt)p
1199 3027 V 54 w(init)3350 3241 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp crt_in)q(it)f Fg(\)p Ff(gn)m(utls)p
1889 3241 28 4 v 40 w(op)s(enpgp)p 2266 3241 V 39 w(crt)p
2416 3241 V 41 w(t)30 b(*)h Fe(key)12 b Fg(\)390 3350
y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)f(initialized)
390 3502 y(This)g(function)g(will)g(initialize)j(an)d(Op)s(enPGP)f(k)m
(ey)i(structure.)390 3654 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)150
3870 y Fu(gn)m(utls)p 483 3870 37 5 v 55 w(op)s(enpgp)p
991 3870 V 55 w(crt)p 1199 3870 V 54 w(prin)m(t)3350
4084 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_pr)q
(int)f Fg(\)p Ff(gn)m(utls)p 1941 4084 28 4 v 41 w(op)s(enpgp)p
2319 4084 V 39 w(crt)p 2469 4084 V 40 w(t)31 b Fe(cert)12
b Ff(,)565 4193 y(gn)m(utls)p 811 4193 V 41 w(cert\014cate)p
1239 4193 V 42 w(prin)m(t)p 1476 4193 V 39 w(formats)p
1816 4193 V 41 w(t)30 b Fe(format)12 b Ff(,)32 b(gn)m(utls)p
2543 4193 V 41 w(datum)p 2842 4193 V 39 w(t)f(*)g Fe(out)12
b Fg(\)390 4303 y Ff(cert)r FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)

f(prin)m(ted)390 4455 y Ff(format)r FB(:)41 b(Indicate)31
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390 4758 y(This)44 b(function)g(will)h(prett)m(y)g(prin)m(tf(ang(Op)s
(enPGP)f(cert\014cate.)50 b(suitable)45 b(for)g(displa)m(y)f(to)i(a)
390 4867 y(h)m(uman.)390 5019 y(The)30 b(format)h(should)e(b)s(e)h
(zero)h(for)f(future)f(compatibilit)m(y)-8 b(.)390 5171
y(The)30 b(output)g Fs(out)f FB(needs)h(to)h(b)s(e)f(deallo)s(cate)j
(using)d Fs(gnutls_free\(\))p FB(.)390 5322 y Fn>Returns:)40
b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s
(de.)p eop end
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Fu(gn)m(utls)p 483 299 37 5 v 55 w(op)s(enpgp)p 991 299
V 55 w(crt)p 1199 299 V 54 w(set)p 1405 299 V 54 w(preferred)p
1950 299 V 55 w(k)m(ey)p 2188 299 V 53 w(id)3350 494
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_se)q(t_pr)
q(efe)q(rre)q(d_k)q(ey_i)q(d)565 603 y Fg(\()p Ff(gn)m(utls)p
846 603 28 4 v 41 w(op)s(enpgp)p 1224 603 V 39 w(crt)p
1374 603 V 40 w(t)31 b Fe(key)12 b Ff(,)31 b(const)g(gn)m(utls)p
2182 603 V 40 w(op)s(enpgp)p 2559 603 V 39 w(k)m(eyid)p
2807 603 V 40 w(t)g Fe(keyid)12 b Fg(\()390 713 y Ff(k)m(ey)c
FB(:)41 b(the)31 b(structure)f(that)h(con)m(tains)g(the)g(Op)s(enPGP)e
(public)h(k)m(ey)-8 b(.)390 846 y Ff(k)m(eyid)t FB(:)41
b(the)30 b(selected)i(k)m(eyid)390 980 y(This)f(allo)m(ws)h(setting)h
(a)f(preferred)e(k)m(ey)i(id)f(for)g(the)h(giv)m(en)g(cert\014cate.)46
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y Fn>Returns:)42 b FB(On)30 b(success,)i Fs(GNUTLS_E_SUCCESS)27
b FB(\(zero\))33 b(is)e(returned,)f(otherwise)i(an)f(error)g(co)s(de)
390 1333 y(is)f(returned.)150 1530 y Fu(gn)m(utls)p 483
1530 37 5 v 55 w(op)s(enpgp)p 991 1530 V 55 w(crt)p 1199
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y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_ve)q(rify)
q(_ri)q(ng)f Fg(\()p Ff(gn)m(utls)p 2255 1725 28 4 v
41 w(op)s(enpgp)p 2633 1725 V 38 w(crt)p 2782 1725 V
41 w(t)30 b Fe(key)12 b Ff(,)565 1834 y(gn)m(utls)p 811
1834 V 41 w(op)s(enpgp)p 1189 1834 V 38 w(k)m(eyring)p
1517 1834 V 41 w(t)31 b Fe(keyring)12 b Ff(,)32 b(unsigned)d(in)m(t)i
Fe(flags)12 b Ff(,)32 b(unsigned)d(in)m(t)i(*)565 1944
y Fe(verify)12 b Fg(\()390 2053 y Ff(k)m(ey)c FB(:)41
b(the)31 b(structure)f(that)h(holds)f(the)g(k)m(ey)-8
b(.)390 2187 y Ff(k)m(eyring)8 b FB(:)41 b(holds)30 b(the)h(k)m(eyring)
g(to)g(c)m(hec)m(k)h(against)390 2320 y Ff(\015ags)t
FB(:)41 b(un)m(used)29 b(\(should)g(b)s(e)h(0\))390 2454
y Ff(v)m(erify)8 b FB(:)41 b(will)31 b(hold)f(the)g(cert\014cate)j(v)m
(eri\014cation)f(output.)390 2587 y(V)-8 b(erify)31 b(all)g(signatures)

g(in)f(the)g(k)m(ey)-8 b(,)32 b(using)e(the)h(giv)m(en)g(set)g(of)f(k)m
(eys)h(\(k)m(eyring).)390 2721 y(The)39 b(k)m(ey)i(v)m(eri\014cation)g
(output)e(will)h(b)s(e)f(put)g(in)g Fs(verify)f FB(and)h(will)h(b)s(e)f
(one)h(or)g(more)g(of)g(the)390 2830 y Fs(gnutls_certificate_statu)o
(s_t)24 b FB(en)m(umerated)31 b(elemen)m(ts)g(bit)m(wise)g(or'd.)390
2964 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)150 3161 y Fu(gn)m(utls)p
483 3161 37 5 v 55 w(op)s(enpgp)p 991 3161 V 55 w(crt)p
1199 3161 V 54 w(v)m(erify)p 1557 3161 V 54 w(self)3350
3356 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp crt_ve)q
(rify)q(_se)q(lf)f Fg(\()p Ff(gn)m(utls)p 2255 3356 28
4 v 41 w(op)s(enpgp)p 2633 3356 V 38 w(crt)p 2782 3356
V 41 w(t)30 b Fe(key)12 b Ff(,)565 3466 y(unsigned)29
b(in)m(t)i Fe(flags)12 b Ff(,)32 b(unsigned)d(in)m(t)i(*)g
Fe(verify)12 b Fg(\()390 3575 y Ff(k)m(ey)c FB(:)41 b(the)31
b(structure)f(that)h(holds)f(the)g(k)m(ey)-8 b(.)390
3709 y Ff(\015ags)t FB(:)41 b(un)m(used)29 b(\(should)g(b)s(e)h(0\))390
3842 y Ff(v)m(erify)8 b FB(:)41 b(will)31 b(hold)f(the)g(k)m(ey)h(v)m
(eri\014cation)h(output.)390 3976 y(V)-8 b(eri\014es)24
b(the)g(self)g(signature)f(in)h(the)f(k)m(ey)-8 b(.)40
b(The)23 b(k)m(ey)h(v)m(eri\014cation)i(output)d(will)h(b)s(e)f(put)f
(in)i Fs(verify)390 4085 y FB(and)f(will)h(b)s(e)g(one)g(or)g(more)g
(of)g(the)g(gn)m(utls)p 1822 4085 V 40 w(cert\014cate)p
2249 4085 V 42 w(status)p 2529 4085 V 41 w(t)g(en)m(umerated)g(elemen)m
(ts)h(bit)m(wise)390 4195 y(or'd.)390 4328 y Fn>Returns:)40
b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s
(de.)150 4526 y Fu(gn)m(utls)p 483 4526 37 5 v 55 w(op)s(enpgp)p
991 4526 V 55 w(k)m(eyring)p 1442 4526 V 54 w(c)m(hec)m(k)p
1789 4526 V 53 w(id)3350 4720 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp_keyrin)q(g_ch)q(eck)q(_id)f
Fg(\()p Ff(gn)m(utls)p 2307 4720 28 4 v 41 w(op)s(enpgp)p
2685 4720 V 39 w(k)m(eyring)p 3014 4720 V 40 w(t)565
4830 y Fe(ring)12 b Ff(,)31 b(const)g(gn)m(utls)p 1325
4830 V 41 w(op)s(enpgp)p 1703 4830 V 39 w(k)m(eyid)p
1951 4830 V 40 w(t)g Fe(keyid)12 b Ff(,)31 b(unsigned)f(in)m(t)h
Fe(flags)12 b Fg(\()390 4939 y Ff(ring)c FB(:)40 b(holds)30
b(the)h(k)m(eyring)g(to)g(c)m(hec)m(k)h(against)390 5073
y Ff(k)m(eyid)t FB(:)41 b(will)31 b(hold)f(the)g(k)m(eyid)h(to)g(c)m
(hec)m(k)h(for.)390 5206 y Ff(\015ags)t FB(:)41 b(un)m(used)29
b(\(should)g(b)s(e)h(0\))390 5340 y(Chec)m(k)h(if)h(a)h(giv)m(en)g(k)m
(ey)g(ID)g(exists)g(in)f(the)h(k)m(eyring.)p eop end
%%Page: 254 260
TeXDict begin 254 259 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(254)390 299 y
Fn>Returns:)39 b Fs(GNUTLS_E_SUCCESS)22 b FB(on)k(success)h(\(if)g(k)m
(eyid)g(exists))h(and)e(a)h(negativ)m(e)i(error)d(co)s(de)h(on)390
408 y(failure.)150 636 y Fu(gn)m(utls)p 483 636 37 5
v 55 w(op)s(enpgp)p 991 636 V 55 w(k)m(eyring)p 1442

636 V 54 w(deinit)3350 861 y FB([F]-8 b(unction))-3599
b Fh(void)54 b(gnutls_openpgp_keyring_d)q(ein)q(ite)
Fg(\()p Ff(gn)m(utls)p 2255 861 28 4 v 41 w(op)s(enpgp)p
2633 861 V 38 w(k)m(eyring)p 2961 861 V 41 w(t)565 970
y Fe(keyring)12 b Fg(\))390 1080 y Ff(k)m(eyring)c FB(:)41
b(The)30 b(structure)g(to)h(b)s(e)f(initialized)390 1243
y(This)g(function)g(will)g(deinitialize)j(a)e(k)m(eyring)g(structure.)
150 1470 y Fu(gn)m(utls)p 483 1470 37 5 v 55 w(op)s(enpgp)p
991 1470 V 55 w(k)m(eyring)p 1442 1470 V 54 w(get)p 1661
1470 V 54 w(crt)p 1868 1470 V 54 w(coun)m(t)3350 1695
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp_keyrin)q(g_ge)
q(t_c)q(rt_)q(cou)q(nt)565 1805 y Fg(\()p Ff(gn)m(utls)p
846 1805 28 4 v 41 w(op)s(enpgp)p 1224 1805 V 39 w(k)m(eyring)p
1553 1805 V 40 w(t)31 b Fe(ring)12 b Fg(\))390 1914 y
Ff(ring)c FB(:)40 b(is)31 b(an)f(Op)s(enPGP)f(k)m(ey)i(ring)390
2077 y(This)36 b(function)g(will)h(return)e(the)i(n)m(um)m(b)s(er)e(of)
i(Op)s(enPGP)e(cert)014cates)j(presen)m(t)f(in)f(the)h(giv)m(en)390
2186 y(k)m(eyring.)390 2349 y Fn>Returns:)j FB(the)31
b(n)m(um)m(b)s(er)e(of)i(subk)m(ey)s, f(or)g(a)h(negativ)m(e)h(v)-5
b(alue)31 b(on)f(error.)150 2577 y Fu(gn)m(utls)p 483
2577 37 5 v 55 w(op)s(enpgp)p 991 2577 V 55 w(k)m(eyring)p
1442 2577 V 54 w(get)p 1661 2577 V 54 w(crt)3350 2801
y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_openpgp_keyrin)q(g_ge)
q(t_c)q(rt_)f Fg(\()p Ff(gn)m(utls)p 2255 2801 28 4 v
41 w(op)s(enpgp)p 2633 2801 V 38 w(k)m(eyring)p 2961
2801 V 41 w(t)565 2911 y Fe(ring)12 b Ff(,)31 b(unsigned)f(in)m(t)h
Fe(idx)12 b Ff(,)31 b(gn)m(utls)p 1830 2911 V 40 w(op)s(enpgp)p
2207 2911 V 39 w(crt)p 2357 2911 V 40 w(t)g(*)g Fe(cert)12
b Fg(\))390 3021 y Ff(ring)c FB(:)40 b(Holds)31 b(the)f(k)m(eyring.)390
3183 y Ff(idx)6 b FB(:)41 b(the)30 b(index)g(of)h(the)f(cert)014cate)j
(to)e(exp)s(ort)390 3346 y Ff(cert)r FB(:)41 b(An)30
b(uninitialized)i Fs(gnutls_openpgp_crt_t)24 b FB(structure)390
3509 y(This)e(function)g(will)g(extract)i(an)e(Op)s(enPGP)f
(cert)014cate)k(from)c(the)i(giv)m(en)g(k)m(eyring.)39
b(If)22 b(the)g(index)390 3618 y(giv)m(en)39 b(is)f(out)h(of)h(range)h
Fs(GNUTLS_E_REQUESTED_DATA)o(_NOT)o(_AVA)o(ILA)o(BLE)32
b FB(will)38 b(b)s(e)g(returned.)390 3728 y(The)30 b(returned)f
(structure)h(needs)g(to)h(b)s(e)f(deinited.)390 3891
y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(or)h(an)f(error)g(co)s(de.)150 4118 y Fu(gn)m(utls)p
483 4118 37 5 v 55 w(op)s(enpgp)p 991 4118 V 55 w(k)m(eyring)p
1442 4118 V 54 w(imp)s(ort)3350 4343 y FB([F]-8 b(unction))-3599
b Fh(int)53 b(gnutls_openpgp_keyrin)q(g_im)q(por)q(t)e
Fg(\()p Ff(gn)m(utls)p 2202 4343 28 4 v 41 w(op)s(enpgp)p
2580 4343 V 39 w(k)m(eyring)p 2909 4343 V 41 w(t)565
4452 y Fe(keyring)12 b Ff(,)32 b(const)f(gn)m(utls)p
1482 4452 V 41 w(datum)p 1781 4452 V 39 w(t)g(*)g Fe(data)12
b Ff(,)31 b(gn)m(utls)p 2478 4452 V 40 w(op)s(enpgp)p

2855 4452 V 39 w(crt)p 3005 4452 V 41 w(fm)m(t)p 3182
4452 V 40 w(t)g Fe(format)12 b Fg(\))390 4562 y Ff(k)m(eyring)c
FB(:)41 b(The)30 b(structure)g(to)h(store)g(the)g(parsed)e(k)m(ey)-8
b(.)390 4725 y Ff(data)p FB(:)41 b(The)30 b(RA)-10 b(W)31
b(or)f(BASE64)i(enco)s(ded)e(k)m(eyring.)390 4887 y Ff(format)r
FB(:)41 b(One)30 b(of)g Fs(gnutls_openpgp_keyring_fmt)24
b FB(elemen)m(ts.)390 5050 y(This)34 b(function)h(will)g(con)m(v)m(ert)
i(the)e(giv)m(en)h(RA)-10 b(W)35 b(or)g(Base64)i(enco)s(ded)e(k)m
(eyring)h(to)f(the)h(nativ)m(e)390 5160 y Fs(gnutls_openpgp_keyring_t)
24 b FB(format.)41 b(The)30 b(output)g(will)g(b)s(e)g(stored)h(in)f('k'
m(eyring'.)390 5322 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)p
eop end
%%Page: 255 261
TeXDict begin 255 260 bop 150 -116 a FB(Chapter)30 b(9:)41
b(F)-8 b(unction)31 b(Reference)2237 b(255)150 299 y
Fu(gn)m(utls)p 483 299 37 5 v 55 w(op)s(enpgp)p 991 299
V 55 w(k)m(eyring)p 1442 299 V 54 w(init)3350 492 y FB([F]-8
b(unction])-3599 b Fh(int)53 b(gnutls_openpgp_keyrin)q(g_in)q(it)f
Fg(\()p Ff(gn)m(utls)p 2098 492 28 4 v 41 w(op)s(enpgp)p
2476 492 V 38 w(k)m(eyring)p 2804 492 V 41 w(t)31 b(*)565
602 y Fe(keyring)12 b Fg(\))390 711 y Ff(k)m(eyring)c
FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)f(initialized)390
844 y(This)g(function)g(will)g(initialize)j(an)d(k)m(eyring)h
(structure.)390 977 y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26
b FB(on)31 b(success,)f(or)h(an)f(error)g(co)s(de.)150
1172 y Fu(gn)m(utls)p 483 1172 37 5 v 55 w(op)s(enpgp)p
991 1172 V 55 w(privk)m(ey)p 1446 1172 V 54 w(deinit)3350
1366 y FB([F]-8 b(unction])-3599 b Fh(void)54 b
(gnutls_openpgp_privkey_d)q(ein)q(it)e Fg(\()p Ff(gn)m(utls)p
2255 1366 28 4 v 41 w(op)s(enpgp)p 2633 1366 V 38 w(privk)m(ey)p
2964 1366 V 41 w(t)565 1475 y Fe(key)12 b Fg(\))390 1585
y Ff(k)m(ey)c FB(:)41 b(The)30 b(structure)g(to)h(b)s(e)f(initialized)
390 1718 y(This)g(function)g(will)g(deinitialize)j(a)e(k)m(ey)g
(structure.)150 1913 y Fu(gn)m(utls)p 483 1913 37 5 v
55 w(op)s(enpgp)p 991 1913 V 55 w(privk)m(ey)p 1446 1913
V 54 w(exp)s(ort)p 1851 1913 V 54 w(dsa)p 2081 1913 V
55 w(ra)m(w)3350 2107 y FB([F]-8 b(unction])-3599 b Fh(int)53
b(gnutls_openpgp_privke)q(y_ex)q(por)q(t_d)q(sa_)q(raw)565
2216 y Fg(\()p Ff(gn)m(utls)p 846 2216 28 4 v 41 w(op)s(enpgp)p
1224 2216 V 39 w(privk)m(ey)p 1556 2216 V 40 w(t)31 b
Fe(pkey)12 b Ff(,)31 b(gn)m(utls)p 2178 2216 V 40 w(datum)p
2476 2216 V 40 w(t)g(*)f Fe(p)12 b Ff(,)31 b(gn)m(utls)p
3017 2216 V 40 w(datum)p 3315 2216 V 40 w(t)f(*)h Fe(q)12
b Ff(,)565 2326 y(gn)m(utls)p 811 2326 V 41 w(datum)p
1110 2326 V 39 w(t)31 b(*)g Fe(g)12 b Ff(,)30 b(gn)m(utls)p
1650 2326 V 40 w(datum)p 1948 2326 V 40 w(t)h(*)f Fe(y)12
b Ff(,)31 b(gn)m(utls)p 2489 2326 V 40 w(datum)p 2787

2326 V 40 w(t)f(*)h Fe(x)12 b Fg(\)390 2435 y Ff(pk)m(ey)c
FB(:)41 b(Holds)30 b(the)h(cert\014cate)390 2568 y Ff(p)s
FB(:)40 b(will)31 b(hold)f(the)g(p)390 2701 y Ff(q)r
FB(:)41 b(will)30 b(hold)g(the)h(q)390 2833 y Ff(g)8
b FB(:)41 b(will)31 b(hold)f(the)g(g)390 2966 y Ff(y)8
b FB(:)40 b(will)31 b(hold)f(the)h(y)390 3099 y Ff(x)6
b FB(:)41 b(will)31 b(hold)f(the)g(x)390 3232 y(This)k(function)h(will)
g(exp)s(ort)f(the)h(DSA)g(priv)-5 b(ate)36 b(k)m(ey's)f(parameters)g
(found)f(in)g(the)h(giv)m(en)h(cer-)390 3341 y(ti\014cate.)58
b(The)36 b(new)f(parameters)h(will)g(b)s(e)f(allo)s(cated)j(using)d
Fs(gnutls_malloc(\))c FB(and)36 b(will)g(b)s(e)390 3451
y(stored)30 b(in)h(the)f(appropriate)h(datum.)390 3584
y Fn>Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(otherwise)h(an)f(error.)390 3716 y Fn(Since:)41
b FB(2.4.0)150 3912 y Fu(gn)m(utls)p 483 3912 37 5 v
55 w(op)s(engpp)p 991 3912 V 55 w(privk)m(ey)p 1446 3912
V 54 w(exp)s(ort)p 1851 3912 V 54 w(rsa)p 2063 3912 V
54 w(ra)m(w)3350 4105 y FB([F]-8 b(unction)]-3599 b Fh(int)53
b(gnutls_openpgp_privke)q(y_ex)q(por)q(t_r)q(sa_)q(raw)565
4215 y Fg(\()p Ff(gn)m(utls)p 846 4215 28 4 v 41 w(op)s(engpp)p
1224 4215 V 39 w(privk)m(ey)p 1556 4215 V 40 w(t)31 b
Fe(pkey)12 b Ff(,)31 b(gn)m(utls)p 2178 4215 V 40 w(datum)p
2476 4215 V 40 w(t)g(*)f Fe(m)12 b Ff(,)31 b(gn)m(utls)p
3017 4215 V 40 w(datum)p 3315 4215 V 40 w(t)f(*)h Fe(e)12
b Ff(,)565 4324 y(gn)m(utls)p 811 4324 V 41 w(datum)p
1110 4324 V 39 w(t)31 b(*)g Fe(d)12 b Ff(,)30 b(gn)m(utls)p
1650 4324 V 40 w(datum)p 1948 4324 V 40 w(t)h(*)f Fe(p)12
b Ff(,)31 b(gn)m(utls)p 2489 4324 V 40 w(datum)p 2787
4324 V 40 w(t)f(*)h Fe(q)12 b Ff(,)30 b(gn)m(utls)p 3327
4324 V 41 w(datum)p 3626 4324 V 39 w(t)565 4434 y(*)h
Fe(u)12 b Fg(\)390 4544 y Ff(pk)m(ey)c FB(:)41 b(Holds)30
b(the)h(cert\014cate)390 4676 y Ff(m)p FB(:)40 b(will)31
b(hold)f(the)h(mo)s(dulus)390 4809 y Ff(e)5 b FB(:)41
b(will)31 b(hold)f(the)g(public)g(exp)s(onen)m(t)390
4942 y Ff(d)t FB(:)40 b(will)30 b(hold)g(the)h(priv)-5
b(ate)31 b(exp)s(onen)m(t)390 5075 y Ff(p)s FB(:)40 b(will)31
b(hold)f(the)g(\014rst)g(prime)g(\(p\))390 5207 y Ff(q)r
FB(:)41 b(will)30 b(hold)g(the)h(second)f(prime)g(\(q\))390
5340 y Ff(u)p FB(:)40 b(will)31 b(hold)f(the)g(co)s(e\016cien)m(t)p
eop end

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b(F)-8 b(unction)31 b(Reference)2237 b(256)390 299 y(This)28
b(function)g(will)i(exp)s(ort)e(the)h(RSA)f(priv)-5 b(ate)30
b(k)m(ey's)f(parameters)g(found)f(in)g(the)h(giv)m(en)h(struc-)390
408 y(ture.)38 b(The)21 b(new)h(parameters)h(will)f(b)s(e)g(allo)s
(cated)i(using)d Fs(gnutls_malloc(\))d FB(and)k(will)g(b)s(e)g(stored)
390 518 y(in)30 b(the)h(appropriate)f(datum.)390 649

y Fn(Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b FB(on)31
b(success,)f(otherwise)h(an)f(error.)390 779 y Fn(Since:)41
b FB(2.4.0)150 971 y Fu(gn)m(utls)p 483 971 37 5 v 55
w(op)s(enpgp)p 991 971 V 55 w(privk)m(ey)p 1446 971 V
54 w(exp)s(ort)p 1851 971 V 54 w(subk)m(ey)p 2272 971
V 54 w(dsa)p 2502 971 V 54 w(ra)m(w)3350 1160 y FB([F]-8
b(unction)]-3599 b Fh(int)53 b(gnutls_openpgp_privke)q(y_ex)q(por)q
(t_s)q(ubk)q(ey_d)q(sa_)q(raw)565 1270 y Fg(\()p Ff(gn)m(utls)p
846 1270 28 4 v 41 w(op)s(enpgp)p 1224 1270 V 39 w(privk)m(ey)p
1556 1270 V 40 w(t)31 b Fe(pkey)12 b Ff(,)31 b(unsigned)e(in)m(ti
Fe(idx)12 b Ff(,)31 b(gn)m(utls)p 2920 1270 V 40 w(datum)p
3218 1270 V 40 w(t)g(*)f Fe(p)12 b Ff(,)565 1380 y(gn)m(utls)p
811 1380 V 41 w(datum)p 1110 1380 V 39 w(t)31 b(*)g Fe(q)12
b Ff(,)30 b(gn)m(utls)p 1650 1380 V 40 w(datum)p 1948
1380 V 40 w(t)h(*)f Fe(g)12 b Ff(,)31 b(gn)m(utls)p 2489
1380 V 40 w(datum)p 2787 1380 V 40 w(t)f(*)h Fe(y)12
b Ff(,)30 b(gn)m(utls)p 3327 1380 V 41 w(datum)p 3626
1380 V 39 w(t)565 1489 y(*)h Fe(x)12 b Fg(\()390 1599
y Ff(pk)m(ey)c FB(:)41 b(Holds)30 b(the)h(cert)014cate)390
1729 y Ff(idx)6 b FB(:)41 b(Is)30 b(the)g(subk)m(ey)g(index)390
1860 y Ff(p)s FB(:)40 b(will)31 b(hold)f(the)g(p)390
1991 y Ff(q)r FB(:)41 b(will)30 b(hold)g(the)h(q)390
2122 y Ff(g)8 b FB(:)41 b(will)31 b(hold)f(the)g(g)390
2252 y Ff(y)8 b FB(:)40 b(will)31 b(hold)f(the)h(y)390
2383 y Ff(x)6 b FB(:)41 b(will)31 b(hold)f(the)g(x)390
2514 y(This)k(function)h(will)g(exp)s(ort)f(the)h(DSA)g(priv)-5
b(ate)36 b(k)m(ey)s(f(parameters)g(found)f(in)g(the)h(giv)m(en)h(cer-
390 2623 y(ti)014cate.)58 b(The)36 b(new)f(parameters)h(will)g(b)s(e)f
(allo)s(cated)j(using)d Fs(gnutls_malloc(\))c FB(and)36
b(will)g(b)s(e)390 2733 y(stored)30 b(in)h(the)f(appropriate)h(datum.)
390 2864 y Fn(Returns:)40 b Fs(GNUTLS_E_SUCCESS)26 b
FB(on)31 b(success,)f(otherwise)h(an)f(error.)390 2994
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1399 y FB([F]-8 b(unction)]-3599 b Fh(int)53 b(gnutls_ia_allocate_se)q
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846 1508 28 4 v 41 w(ia)p 957 1508 V 41 w(serv)m(er)p
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2215 y(require_inner_phase\())25 b FB(to)31 b(toggle)h(the)f(TLS/IA)f
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 2640 3692 V 41 w(ia)p 2751 3692 V 40 w(enable)h(w)m(as)g(called)h(b)s
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 (ertised)g(that)g(it)390 3911 y(w)m(an)m(ts)h(to)g(run)e(TLS/IA)g(b)s
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 4155 y(for)d(resumed)e(sessions)i(if)g Fs(allow_skip_on_resume)20
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 390 4264 y(require)35 b(that)h(the)g(session)g(is)f(indeed)g(resumable)
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 4374 y(that)31 b(it)g(allo)m(ws)h(TLS/IA)d(to)i(b)s(e)f(skip)s(ed)f
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 580 y(In)g(the)h(clien)m(t,)h(this)e(should)g(only)h(b)s(e)f(used)f(to)
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 690 y(the)g(serv)m(er.)390 830 y(In)e(the)i(serv)m(er,)f(this)g(can)h
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54 w(secret)3350 1488 y FB([F]-8 b(unction))-3599 b Fh(void)54
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2307 1488 28 4 v 41 w(session)p 2617 1488 V 40 w(t)31
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2882 y Fu(gn)m(utls)p 483 2882 37 5 v 55 w(ia)p 632 2882
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3195 y Fg(\()p Ff(gn)m(utls)p 846 3195 28 4 v 41 w(ia)p
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(cate))i(it.)150 3760 y Fu(gn)m(utls)p 483 3760 37 5
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1261 3760 V 54 w(creden)m(tials)3350 3962 y FB([F]-8
b(unction))-3599 b Fh(void)54 b(gnutls_ia_free_server_cr)q(ede)q(ntl)q
(als)565 4072 y Fg(\()p Ff(gn)m(utls)p 846 4072 28 4
v 41 w(ia)p 957 4072 V 41 w(serv)m(er)p 1231 4072 V 40
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4432 y(pro)m(vided)f(in)g(order)g(to)h(free)g(\(deallo)s(cate))i(it.)
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4840 y FB([F]-8 b(unction))-3599 b Fh(int)53 b(gnutls_ia_generate_ch)q

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1196 747 V 54 w(a)m(vp)p 1440 747 V 53 w(ptr)3350 946
y FB([F)-8 b(unction)]-3599 b Fh(void)54 b(*)e(gnutls_ia_get_client_a)q
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b(unction)]-3599 b Fh(void)54 b(*)e(gnutls_ia_get_server_a)q(vp_)q(ptr)
565 2058 y Fg(\()p Ff(gn)m(utls)p 846 2058 28 4 v 41
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1692 2058 V 41 w(t)31 b Fe(cred)12 b Fg(\()390 2168 y
Ff(cred)t FB(:)40 b(is)31 b(a)f Fs(gnutls_ia_client_credenti)o(als_)o
(t)24 b FB(structure.)390 2304 y(Returns)h(the)g(p)s(oin)m(ter)h(that)g
(will)f(b)s(e)g(pro)m(vid)g(to)h(the)g(TLS/IA)f(callbac)m(k)i
(function)e(as)h(the)g(\014rst)390 2414 y(argumen)m(t.)390
2551 y Fn(Returns:)40 b FB(The)30 b(serv)m(er)h(callbac)m(k)h(data)f(p)
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b Fg(\()390 3061 y Ff(session)p FB(:)41 b(is)30 b(a)h

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 701 y Fn(Return)g(v)-5 b(alue:)41 b FB(Return)30 b(zero)h(on)f
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 b(gnutls_ia_recv)c Fg()\p Ff(gn)m(utls)p 1627 1120 28
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 b(bu\013er)e(that)i(the)g(data)g(will)g(b)s(e)e(read)i(in)m(to,)g(m)m
 (ust)g(hold)f Fs(>)p FB(=)f(12)i(b)m(ytes.)390 1632 y
 Ff(sizeofdata)p FB(:)43 b(the)30 b(n)m(um)m(b)s(er)f(of)i(requested)f
 (b)m(ytes,)h(m)m(ust)f(b)s(e)g Fs(>)p FB(=)g(12.)390
 1778 y(Receiv)m(e)41 b(TLS/IA)d(data.)68 b(This)38 b(function)h(has)f
 (the)h(similar)h(seman)m(tics)g(with)f Fs(recv\(\))p
 FB(.)64 b(The)390 1888 y(only)30 b(di\013erence)h(is)g(that)g(it)g
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 (\014nish)e(an)h(application)i(phase,)63 b(this)56 b(function)g(will)h
 (return)390 2144 y Fs(GNUTLS_E_WARNING_IA_IPHF)o(_REC)o(EIVE)o(D)46
 b FB(or)52 b Fs(GNUTLS_E_WARNING_IA_FPH)o(F_RE)o(CEIV)o(ED)p
 FB(.)390 2253 y(The)43 b(caller)h(should)e(then)h(in)m(v)m(ok)m(e)i
 Fs(gnutls_ia_verify_endphas)o(e\(\))p FB(,)40 b(and)j(if)g(it)g(runs)f
 (the)390 2363 y(clien)m(t)31 b(side,)f(also)h(send)e(an)g(endphase)g
 (message)i(of)e(its)h(o)m(w)n)g(using)f(gn)m(utls)p 2998
 2363 V 41 w(ia)p 3109 2363 V 40 w(endphase)p 3514 2363
 V 39 w(send.)390 2509 y(If)21 b(EINTR)g(is)h(returned)e(b)m(y)i(the)f
 (in)m(ternal)i(push)d(function)h(\(the)h(default)g(is)g
 Fs(code{recv\(\)})p FB(\))c(then)390 2619 y(GNUTLS)p
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 2619 V 40 w(E)p 2917 2619 V 40 w(INTERR)m(UPTED)g(or)390
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 (ou)d(could)h(pro)m(vid)e)f(a)h(NULL)f(p)s(oin)m(ter)g(for)g(data,)h
 (and)f(0)h(for)f(size.)390 2984 y Fn>Returns:)41 b FB(The)30
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 3203 y(FPHF_RECEIVED)30 b FB(errors)i(are)i(returned)e(when)g(an)h
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 3313 y(b)s(een)c(sen)m(t)h(b)m(y)f(the)g(serv)m(er.)150
 3524 y Fu(gn)m(utls)p 483 3524 37 5 v 55 w(ia)p 632 3524
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4500 y Fs(send\(\))p FB(.).48 b(The)33 b(only)g(di\013erence)h(is)f
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(cannot)g(send)e(more)h(than)g(one)h(pac)m(k)m(et)h(at)f(a)390
4865 y(time.)41 b(The)30 b(clien)m(t)i(alw)m(a)m(ys)g(send)e(the)g
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(sen)m(t,)g(or)f(a)h(negativ)m(e)i(error)d(co)s(de.)150
951 y Fu(gn)m(utls)p 483 951 37 5 v 55 w(ia)p 632 951
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1753 y(The)k(A)-10 b(VP)36 b(callbac)m(k)i(is)d(called)i(to)g(pro)s
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2672 y(output)k(A)-10 b(VP)30 b(to)i(send)d(to)i(the)g(serv)m(er)f
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3044 y(Return)d(0)i(\(\))p Fs(GNUTLS_IA_APPLICATION_PAYL)o(OAD)p
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3285 y(Note)25 b(that)g(the)f(callbac)m(k)i(m)m(ust)d(use)h(allo)s
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FB,)390 3394 y(b)s(ecause)30 b(it)h(is)g(released)g(via)g
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(function.)150 3587 y Fu(gn)m(utls)p 483 3587 37 5 v
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w(ia)p 2313 3776 V 41 w(clien)m(t)p 2567 3776 V 42 w(creden)m(tials)p
3030 3776 V 41 w(t)565 3886 y Fe(cred)12 b Ff(,)31 b(v)m(oid)g(*)g
Fe(ptr)12 b Fg(\(\))390 3996 y Ff(cred)t FB(:)40 b(is)31
b(a)f Fs(gnutls_ia_client_credenti)o(als_)o(t)24 b FB(structure.)390
4127 y Ff(ptr)7 b FB(:)40 b(is)30 b(the)h(p)s(oin)m(ter)390
4258 y(Sets)36 b(the)h(p)s(oin)m(ter)f(that)h(will)g(b)s(e)f(prom
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(\014rst)390 4367 y(argumen)m(t.)150 4559 y Fu(gn)m(utls)p
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Ff(cred)t FB(:)40 b(is)31 b(a)f Fs(gnutls_ia_server_credenti)o(als_)o
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 b(VP)30 b(callbac)m(k)j(handler)c(used)h(for)g(the)h(session.)390
 5230 y(The)h(callbac)m(k's)j(function)d(form)g(is):46
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 (*ptr,)390 5340 y(const)e(c)m(har)g(*last,)h(size)p 1218
 5340 V 40 w(t)f(lastlen,)h(c)m(har)f(**next,)g(size)p
 2299 5340 V 41 w(t)g(*nextlen);)p eop end
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 518 y Fs(gnutls_ia_set_server_avp)o(_ptr)o(\(\))p FB(.)37
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 (presen)m(t)g(in)390 628 y Fs(last)g FB(of)h Fs(lastlen)e
 FB(size.)46 b(The)31 b(newly)h(allo)s(cated)i(output)d(A)-10
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 b FB(message)32 b(t)m(y)p)s(e.)390 1334 y(The)23 b(callbac)m(k)i(ma)m(y)
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 b FB(to)24 b(mix)f(an)m(y)h(generated)390 1444 y(session)30
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 1578 y(Sp)s(eci\014cally)-8 b(,)43 b(return)c Fs
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2587 2654 V 40 w(creden)m(tials)p 3048 2654 V 42 w(t)565
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3142 y(Sets)36 b(the)h(p)s(oin)m(ter)f(that)h(will)g(b)s(e)f(pro)m
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(of)e(the)g(end)f(phase)h(message)h(fails,)h Fs
(GNUTLS_E_IA_VERIFY_FAIL)o(ED)20 b FB(is)26 b(returned.)150
4961 y FA(9.6)68 b(Error)45 b(Co)t(des)g(and)g(Descriptions)150
5121 y FB(The)26 b(error)g(co)s(des)h(used)f(throughout)g(the)h
(library)f(are)h(describ)s(ed)f(b)s(elo)m(w.)39 b(The)27
b(return)e(co)s(de)i Fs(GNUTLS_)150 5230 y(E_SUCCESS)g
FB(indicate)j(successful)f(op)s(eration,)h(and)e(is)h(guaran)m(teed)i
(to)e(ha)m(v)m(e)i(the)e(v)-5 b(alue)30 b(0,)g(so)f(y)m(ou)h(can)150
5340 y(use)g(it)h(in)f(logical)j(expressions.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(269)150 299 y
Fs(GNUTLS_E_AGAIN:)630 408 y FB(Resource)31 b(temp)s(orarily)f(una)m(v)
-5 b(ailable,)32 b(try)f(again.)150 573 y Fs(GNUTLS_E_ASN1_DER_ERROR:)

630 682 y FB(ASN1)g(parser:)40 b(Error)29 b(in)h(DER)h(parsing.)150
847 y Fs(GNUTLS_E_ASN1_DER_OVERFL)o(OW:)630 956 y FB(ASN1)g(parser:)40
b(Ov)m(er\015o)m(w)30 b(in)g(DER)h(parsing.)150 1121
y Fs(GNUTLS_E_ASN1_ELEMENT_NO)o(T_FO)o(UND:)630 1230
y FB(ASN1)g(parser:)40 b(Ellemen)m(t)31 b(w)m(as)g(not)f(found.)150
1395 y Fs(GNUTLS_E_ASN1_GENERIC_ER)o(ROR:)630 1504 y
FB(ASN1)h(parser:)40 b(Generic)31 b(parsing)f(error.)150
1669 y Fs(GNUTLS_E_ASN1_IDENTIFIER)o(_NOT)o(_FOU)o(ND:)630
1778 y FB(ASN1)h(parser:)40 b(Ident)m(ti\014er)30 b(w)m(as)h(not)f
(found)150 1943 y Fs(GNUTLS_E_ASN1_SYNTAX_ERR)o(OR:)630
2052 y FB(ASN1)h(parser:)40 b(Syn)m(tax)30 b(error.)150
2217 y Fs(GNUTLS_E_ASN1_TAG_ERROR:)630 2326 y FB(ASN1)h(parser:)40
b(Error)29 b(in)h(T)-8 b(A)m(G.)150 2491 y Fs(GNUTLS_E_ASN1_TAG_IMPLIC)
o(IT:)630 2600 y FB(ASN1)31 b(parser:)40 b(error)30 b(in)g(implicit)h
(tag)150 2765 y Fs(GNUTLS_E_ASN1_TYPE_ANY_E)o(RROR)o(:)630
2874 y FB(ASN1)g(parser:)40 b(Error)29 b(in)h(t)m(y)p(s)e(h('ANY').)150
3039 y Fs(GNUTLS_E_ASN1_VALUE_NOT_)o(FOUN)o(D:)630 3148
y FB(ASN1)g(parser:)40 b(V)-8 b(alue)31 b(w)m(as)g(not)g(found.)150
3313 y Fs(GNUTLS_E_ASN1_VALUE_NOT_)o(VAlI)o(D:)630 3422
y FB(ASN1)g(parser:)40 b(V)-8 b(alue)31 b(is)g(not)f(v)-5
b(alid.)150 3587 y Fs(GNUTLS_E_BASE64_DECODING)o(_ERR)o(OR:)630
3696 y FB(Base64)32 b(deco)s(ding)f(error.)150 3861 y
Fs(GNUTLS_E_BASE64_ENCODING)o(_ERR)o(OR:)630 3970 y FB(Base64)h(enco)s
(ding)f(error.)150 4134 y Fs(GNUTLS_E_BASE64_UNEXPECT)o(ED_H)o(EADE)o
(R_E)o(RROR)o(:)630 4244 y FB(Base64)h(unexp)s(ected)e(header)g(error.)
150 4408 y Fs(GNUTLS_E_CERTIFICATE_ERR)o(OR:)630 4518
y FB(Error)f(in)i(the)f(cert\014cate.)150 4682 y Fs
(GNUTLS_E_CERTIFICATE_KEY)o(_MIS)o(MATC)o(H:)630 4792
y FB(The)g(cert\014cate)i(and)e(the)h(giv)m(en)g(k)m(ey)g(do)f(not)h
(matc)m(h.)150 4956 y Fs(GNUTLS_E_COMPRESSION_FAI)o(LED:)630
5066 y FB(Compression)f(of)g(the)h(TLS)e(record)h(pac)m(k)m(et)j(has)d
(failed.)150 5230 y Fs(GNUTLS_E_CONSTRAINT_ERRO)o(R:)630
5340 y FB(Some)g(constrain)m(t)i(limits)f(w)m(ere)g(reac)m(hed.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(270)150 299 y
Fs(GNUTLS_E_CRYPTO_ALREADY_)o(REGI)o(STER)o(ED:)630 408
y FB(There)30 b(is)g(already)h(a)g(crypto)g(algorithm)g(with)f(lo)m(w)m
(er)i(priorit)m(y)-8 b(.).150 573 y Fs(GNUTLS_E_DB_ERROR:)630
682 y FB(Error)29 b(in)i(Database)h(bac)m(k)m(end.)150
847 y Fs(GNUTLS_E_DECOMPRESSION_F)o(AILE)o(D:)630 956
y FB(Decompression)f(of)g(the)f(TLS)g(record)g(pac)m(k)m(et)i(has)e
(failed.)150 1121 y Fs(GNUTLS_E_DECRYPTION_FAIL)o(ED:)630
1230 y FB(Decryption)h(has)f(FAILED.)150 1395 y Fs
(GNUTLS_E_DH_PRIME_UNACCE)o(PTAB)o(LE:)630 1504 y FB(The)22
b(Di\016e-Hellman)i(prime)d(sen)m(t)i(b)m(y)f(the)h(serv)m(er)f(is)g
(not)h(acceptable)h(\(not)f(long)g(enough\).)150 1669

y Fs(GNUTLS_E_ENCRYPTION_FAIL)o(ED:)630 1778 y FB(Encryption)30
b(has)g(failed.)150 1943 y Fs(GNUTLS_E_ERROR_IN_FINISH)o(ED_P)o(ACKE)o
(T:)630 2052 y FB(An)g(error)g(w)m(as)h(encoun)m(tered)g(at)g(the)f
(TLS)g(Finished)f(pac)m(k)m(et)k(calculation.)150 2217
y Fs(GNUTLS_E_EXPIRED:)630 2326 y FB(The)d(requested)g(session)h(has)f
(expired.)150 2491 y Fs(GNUTLS_E_FATAL_ALERT_REC)o(EIVE)o(D:)630
2600 y FB(A)g(TLS)g(fatal)h(alert)h(has)e(b)s(een)g(receiv)m(ed.)150
2765 y Fs(GNUTLS_E_FILE_ERROR:)630 2874 y FB(Error)f(while)i(reading)f
(014le.)150 3039 y Fs(GNUTLS_E_GOT_APPLICATION)o(_DAT)o(A:)630
3148 y FB(TLS)f(Application)j(data)f(w)m(ere)g(receiv)m(ed,)h(while)e
(exp)secting)h(handshak)m(e)f(data.)150 3313 y Fs
(GNUTLS_E_HANDSHAKE_TOO_L)o(ARGE)o(:)630 3422 y FB(The)20
b(handshak)m(e)g(data)h(size)g(is)f(to)s(o)h(large)g(\(DoS?\),)j(c)m
(hec)m(k)e(gn)m(utls)p 2851 3422 28 4 v 40 w(handshak)m(e)p
3306 3422 V 40 w(set)p 3457 3422 V 40 w(max)p 3666 3422
V 41 w(pac)m(k)m(et)p 3960 3422 V 42 w(length\(\).)150
3587 y Fs(GNUTLS_E_HASH_FAILED:)630 3696 y FB(Hashing)31
b(has)f(failed.)150 3861 y Fs(GNUTLS_E_IA_VERIFY_FAILE)o(D:)630
3970 y FB(V)-8 b(erifying)31 b(TLS/IA)f(phase)g(c)m(hec)m(ksum)h
(failed)150 4134 y Fs(GNUTLS_E_ILLEGAL_SRP_USE)o(RNAM)o(E:)630
4244 y FB(The)f(SRP)f(username)h(supplied)f(is)i(illegal.)150
4408 y Fs(GNUTLS_E_INCOMPATIBLE_GC)o(RYPT)o(_LIB)o(RAR)o(Y:)630
4518 y FB(The)f(gcrypt)g(library)g(v)m(ersion)h(is)g(to)s(o)g(old.)150
4682 y Fs(GNUTLS_E_INCOMPATIBLE_LI)o(BTAS)o(N1_L)o(IBR)o(ARY:)630
4792 y FB(The)f(tasn1)h(library)f(v)m(ersion)h(is)f(to)s(o)h(old.)150
4956 y Fs(GNUTLS_E_INIT_LIBEXTRA:)630 5066 y FB(The)f(initialization)j
(of)e(Gn)m(uTLS-extra)f(has)g(failed.)150 5230 y Fs
(GNUTLS_E_INSUFFICIENT_CR)o(EDEN)o(TIAL)o(S:)630 5340
y FB(Insu\016cien)m(t)g(creden)m(tials)i(for)e(that)h(request.)p
eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(271)150 299 y
Fs(GNUTLS_E_INTERNAL_ERROR:)630 408 y FB(Gn)m(uTLS)29
b(in)m(ternal)i(error.)150 573 y Fs(GNUTLS_E_INTERRUPTED:)630
682 y FB(F)-8 b(unction)31 b(w)m(as)g(in)m(errupted.)150
847 y Fs(GNUTLS_E_INVALID_PASSWOR)o(D:)630 956 y FB(The)f(giv)m(en)h
(passw)m(ord)f(con)m(tains)h(in)m(v)-5 b(alid)31 b(c)m(haracters.)150
1121 y Fs(GNUTLS_E_INVALID_REQUEST)o(:)630 1230 y FB(The)f(request)g
(is)h(in)m(v)-5 b(alid.)150 1395 y Fs(GNUTLS_E_INVALID_SESSION)o(:)630
1504 y FB(The)30 b(sp)s(eci\014ed)g(session)g(has)g(b)s(een)g(in)m(v)-5
b(alidated)31 b(for)g(some)f(reason.)150 1669 y Fs
(GNUTLS_E_KEY_USAGE_VIOLA)o(TION)o(:)630 1778 y FB(Key)g(usage)h
(violation)i(in)d(certifi\014cate)i(has)e(b)s(een)g(detected.)150
1943 y Fs(GNUTLS_E_LARGE_PACKET:)630 2052 y FB(A)g(large)i(TLS)d
(record)i(pac)m(k)m(et)h(w)m(as)f(receiv)m(ed.)150 2217
y Fs(GNUTLS_E_LIBRARY_VERSION)o(_MIS)o(MATC)o(H:)630
2326 y FB(The)25 b(Gn)m(uTLS)f(library)h(v)m(ersion)g(do)s(es)g(not)h

(matc)m(h)g(the)f(Gn)m(uTLS-extra)g(library)g(v)m(ersion.)150
2491 y Fs(GNUTLS_E_LZO_INIT_FAILED)o(:)630 2600 y FB(The)30
b(initialization)j(of)e(LZO)e(has)h(failed.)150 2765
y Fs(GNUTLS_E_MAC_VERIFY_FAIL)o(ED:)630 2874 y FB(The)g(Message)i
(Authen)m(tication)g(Co)s(de)v)m(eri\014cation)i(failed.)150
3039 y Fs(GNUTLS_E_MEMORY_ERROR:)630 3148 y FB(In)m(ternal)f(error)f
(in)g(memory)g(allo)s(cation.)150 3313 y Fs(GNUTLS_E_MPI_PRINT_FAILED)o
(D:)630 3422 y FB(Could)g(not)g(exp)s(ort)g(a)h(large)h(in)m(teger.)150
3587 y Fs(GNUTLS_E_MPI_SCAN_FAILED)o(:)630 3696 y FB(The)e(scanning)g
(of)h(a)f(large)i(in)m(teger)g(has)e(failed.)150 3861
y Fs(GNUTLS_E_NO_CERTIFICATE_)o(FOUN)o(D:)630 3970 y
FB(The)g(p)s(eer)g(did)f(not)i(send)e(an)m(y)i(cert\014cate.)150
4134 y Fs(GNUTLS_E_NO_CIPHER_SUITE)o(S:)630 4244 y FB(No)g(supp)s
(orted)d(cipher)i(suites)h(ha)m(v)m(e)h(b)s(een)d(found.)150
4408 y Fs(GNUTLS_E_NO_COMPRESSION_)o(ALGO)o(RITH)o(MS:)630
4518 y FB(No)i(supp)s(orted)d(compression)j(algorithms)g(ha)m(v)m(e)h
(b)s(een)d(found.)150 4682 y Fs(GNUTLS_E_NO_TEMPORARY_DH)o(_PAR)o(AMS:)
630 4792 y FB(No)i(temp)s(orary)f(DH)h(parameters)g(w)m(ere)f(found.)
150 4956 y Fs(GNUTLS_E_NO_TEMPORARY_RS)o(A_PA)o(RAMS)o(:)630
5066 y FB(No)h(temp)s(orary)f(RSA)g(parameters)h(w)m(ere)f(found.)150
5230 y Fs(GNUTLS_E_OPENPGP_FINGERP)o(RINT)o(_UNS)o(UPP)o(ORTE)o(D:)630
5340 y FB(The)g(Op)s(enPGP)f(\014ngerprin)m(t)g(is)i(not)f(supp)s
(orted.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(272)150 299 y
Fs(GNUTLS_E_OPENPGP_GETKEY_)o(FAIL)o(ED:)630 408 y FB(Could)30
b(not)g(get)i(Op)s(enPGP)d(k)m(ey)-8 b(.)150 573 y Fs
(GNUTLS_E_OPENPGP_KEYRING)o(_ERR)o(OR:)630 682 y FB(Error)29
b(loading)j(the)e(k)m(eyring.)150 847 y Fs(GNUTLS_E_OPENPGP_SUBKEY_)o
(ERRO)o(R:)630 956 y FB(Could)g(not)g(\014nd)f(Op)s(enPGP)g(subk)m(ey)
-8 b(.)150 1121 y Fs(GNUTLS_E_OPENPGP_UID_REV)o(OKED)o(:)630
1230 y FB(The)30 b(Op)s(enPGP)f(User)h(ID)h(is)f(rev)m(ok)m(ed.)150
1395 y Fs(GNUTLS_E_PKCS1_WRONG_PAD)o(:)630 1504 y FB(W)-8
b(rong)31 b(padding)f(in)g(PK)m(CS1)g(pac)m(k)m(et.)150
1669 y Fs(GNUTLS_E_PK_DECRYPTION_F)o(AILE)o(D:)630 1778
y FB(Public)g(k)m(ey)h(decryption)g(has)f(failed.)150
1943 y Fs(GNUTLS_E_PK_ENCRYPTION_F)o(AILE)o(D:)630 2052
y FB(Public)g(k)m(ey)h(encryption)g(has)f(failed.)150
2217 y Fs(GNUTLS_E_PK_SIGN_FAILED:)630 2326 y FB(Public)g(k)m(ey)h
(signing)g(has)f(failed.)150 2491 y Fs(GNUTLS_E_PK_SIG_VERIFY_F)o(AILE)
o(D:)630 2600 y FB(Public)g(k)m(ey)h(signature)g(v)m(eri\014cation)h
(has)e(failed.)150 2765 y Fs(GNUTLS_E_PULL_ERROR:)630
2874 y FB(Error)f(in)i(the)f(pull)g(function.)150 3039
y Fs(GNUTLS_E_PUSH_ERROR:)630 3148 y FB(Error)f(in)i(the)f(push)f
(function.)150 3313 y Fs(GNUTLS_E_RANDOM_FAILED:)630
3422 y FB(F)-8 b(ailed)32 b(to)f(acquire)g(random)f(data.)150
3587 y Fs(GNUTLS_E_RECEIVED_ILLEGA)o(L_EX)o(TENS)o(ION)o(:)630

3696 y FB(An)g(illegal)j(TLS)c(extension)i(w)m(as)g(receiv)m(ed.)150
3861 y Fs(GNUTLS_E_RECEIVED_ILLEGA)o(L_PA)o(RAME)o(TER)o(:)630
3970 y FB(An)f(illegal)j(parameter)d(has)h(b)s(een)e(receiv)m(ed.)150
4134 y Fs(GNUTLS_E_RECORD_LIMIT_RE)o(ACHE)o(D:)630 4244
y FB(The)h(upp)s(er)e(limit)j(of)g(record)f(pac)m(k)m(et)j(sequence)d
(n)m(um)m(b)s(ers)f(has)h(b)s(een)g(reac)m(hed.)41 b(W)-8
b(o)m(w!)150 4408 y Fs(GNUTLS_E_REHANDSHAKE:)630 4518
y FB(Rehandshak)m(e)30 b(w)m(as)h(requested)f(b)m(y)h(the)f(p)s(eer.)
150 4682 y Fs(GNUTLS_E_REQUESTED_DATA_)o(NOT_)o(AVAI)o(LAB)o(LE:)630
4792 y FB(The)g(requested)g(data)h(w)m(ere)g(not)g(a)m(v)-5
b(ailable.)150 4956 y Fs(GNUTLS_E_SHORT_MEMORY_BU)o(FFER)o(:)630
5066 y FB(The)30 b(giv)m(en)h(memory)g(bu\013er)e(is)h(to)s(o)h(short)f
(to)i(hold)e(parameters.)150 5230 y Fs(GNUTLS_E_SRP_PWD_ERROR:)630
5340 y FB(Error)f(in)i(passw)m(ord)e(\014le.)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(273)150 299 y
Fs(GNUTLS_E_SRP_PWD_PARSING)o(_ERR)o(OR:)630 408 y FB(P)m(arsing)31
b(error)f(in)g(passw)m(ord)f(\014le.)150 573 y Fs(GNUTLS_E_SUCCESS:)630
682 y FB(Success.)150 847 y Fs(GNUTLS_E_TOO_MANY_EMPTY_)o(PACK)o(ETS:)
630 956 y FB(T)-8 b(o)s(o)31 b(man)m(y)f(empt)m(y)h(record)f(pac)m(k)m
(ets)j(ha)m(v)m(e)e(b)s(een)f(receiv)m(ed.)150 1121 y
Fs(GNUTLS_E_UNEXPECTED_HAND)o(SHAK)o(E_PA)o(CKE)o(T:)630
1230 y FB(An)g(unexp)s(ected)g(TLS)f(handshak)m(e)h(pac)m(k)m(et)i(w)m
(as)f(receiv)m(ed.)150 1395 y Fs(GNUTLS_E_UNEXPECTED_PACK)o(ET:)630
1504 y FB(An)f(unexp)s(ected)g(TLS)f(pac)m(k)m(et)j(w)m(as)f(receiv)m
(ed.)150 1669 y Fs(GNUTLS_E_UNEXPECTED_PACK)o(ET_L)o(ENGT)o(H:)630
1778 y FB(A)f(TLS)g(pac)m(k)m(et)i(with)e(unexp)s(ected)g(length)h(w)m
(as)g(receiv)m(ed.)150 1943 y Fs(GNUTLS_E_UNKNOWN_ALGORIT)o(HM:)630
2052 y FB(The)f(sp)s(eci\014ed)g(algorithm)h(or)f(proto)s(col)i(is)e
(unkno)m(wn.)150 2217 y Fs(GNUTLS_E_UNKNOWN_CIPHER_)o(SUIT)o(E:)630
2326 y FB(Could)g(not)g(negotiate)j(a)e(supp)s(orted)e(cipher)g(suite.)
150 2491 y Fs(GNUTLS_E_UNKNOWN_CIPHER_)o(TYPE)o(:)630
2600 y FB(The)h(cipher)g(t)m(y)s(e)g(is)h(unsupp)s(orted.)150
2765 y Fs(GNUTLS_E_UNKNOWN_COMPRES)o(SION)o(_ALG)o(ORI)o(THM:)630
2874 y FB(Could)f(not)g(negotiate)j(a)e(supp)s(orted)e(compression)h
(metho)s(d.)150 3039 y Fs(GNUTLS_E_UNKNOWN_HASH_AL)o(GORI)o(THM:)630
3148 y FB(The)g(hash)f(algorithm)j(is)e(unkno)m(wn.)150
3313 y Fs(GNUTLS_E_UNKNOWN_PKCS_BA)o(G_TY)o(PE:)630 3422
y FB(The)g(PK)m(CS)f(structure's)h(bag)h(t)m(y)s(e)g(is)f(unkno)m(wn.)
150 3587 y Fs(GNUTLS_E_UNKNOWN_PKCS_CO)o(NTEN)o(T_TY)o(PE:)630
3696 y FB(The)g(PK)m(CS)f(structure's)h(con)m(ten)m(t)j(t)m(y)s(e)d
(is)h(unkno)m(wn.)150 3861 y Fs(GNUTLS_E_UNKNOWN_PK_ALGO)o(RITH)o(M:)
630 3970 y FB(An)f(unkno)m(wn)f(public)h(k)m(ey)h(algorithm)g(w)m(as)g
(encoun)m(tered.)150 4134 y Fs(GNUTLS_E_UNSUPPORTED_CER)o(TIFI)o(CATE)o
(_TY)o(PE:)630 4244 y FB(The)f(cert\014cate)i(t)m(y)s(e)f(is)f(not)h
(supp)s(orted.)150 4408 y Fs(GNUTLS_E_UNSUPPORTED_VER)o(SION)o(_PAC)o
(KET)o(:)630 4518 y FB(A)f(record)h(pac)m(k)m(et)h(with)e(illegal)j(v)m

(ersion)e(w)m(as)f(receiv)m(ed.)150 4682 y Fs(GNUTLS_E_UNWANTED_ALGORI
o(THM:):630 4792 y FB(An)g(algorithm)h(that)g(is)g(not)f(enabled)h(w)m
(as)f(negotiated.)150 4956 y Fs(GNUTLS_E_WARNING_ALERT_R)o(ECEI)o(VED:)
630 5066 y FB(A)g(TLS)g(w)m(arning)g(alert)h(has)f(b)s(een)g(receiv)m
(ed.)150 5230 y Fs(GNUTLS_E_WARNING_IA_FPHF)o(_REC)o(EIVE)o(D:):630
5340 y FB(Receiv)m(ed)i(a)f(TLS/IA)f(Final)h(Phase)f(Finished)g
(message)p eop end
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b(F)-8 b(unction)31 b(Reference)2237 b(274)150 299 y
Fs(GNUTLS_E_WARNING_IA_IPHF)o(_REC)o(EIVE)o(D:):630 408
y FB(Receiv)m(ed)32 b(a)f(TLS/IA)f(In)m(termediate)h(Phase)g(Finished)e
(message)150 568 y Fs(GNUTLS_E_X509_UNKNOWN_SA)o(N:):630
677 y FB(Unkno)m(w)n)h(Sub)5 b(ject)29 b(Alternativ)m(e)k(name)d(in)g
(X.509)i(cert\014cate.)150 837 y Fs(GNUTLS_E_X509_UNSUPPORTE)o(D_AT)o
(TRIB)o(UTE)o(:):630 946 y FB(The)e(cert\014cate)i(has)e(unsupp)s
(orted)e(attributes.)150 1106 y Fs(GNUTLS_E_X509_UNSUPPORTE)o(D_CR)o
(ITIC)o(AL_)o(EXTE)o(NSIO)o(N:):630 1215 y FB(Unsupp)s(orted)g(critical)
k(extension)g(in)e(X.509)i(cert\014cate.)150 1375 y
Fs(GNUTLS_E_X509_UNSUPPORTE)o(D_OI)o(D:):630 1484 y FB(The)e(OID)g(is)h
(not)f(supp)s(orted.)p eop end
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b(All)31 b(the)g(Supp)s(orted)d(Ciphersuites)i(in)g Ft(Gn)n(uTLS)1265
b FB(275)150 299 y Fx(10)80 b(All)53 b(the)g(Supp)t(orted)f
(Ciphersuites)e(in)j FA(Gn)l(uTLS)150 585 y FB(Av)-5
b(ailable)32 b(cipher)e(suites:):150 737 y(TLS)p 330 737
28 4 v 39 w(ANON)p 644 737 V 40 w(DH)p 821 737 V 41 w(AR)m(CF)m(OUR)p
1322 737 V 41 w(MD5)856 b(0x00)31 b(0x18)323 b(SSL3.0)150
847 y(TLS)p 330 847 V 39 w(ANON)p 644 847 V 40 w(DH)p
821 847 V 41 w(3DES)p 1089 847 V 40 w(EDE)p 1322 847
V 40 w(CBC)p 1558 847 V 40 w(SHA1)586 b(0x00)31 b(0x1b)317
b(SSL3.0)150 956 y(TLS)p 330 956 V 39 w(ANON)p 644 956
V 40 w(DH)p 821 956 V 41 w(AES)p 1043 956 V 39 w(128)p
1217 956 V 42 w(CBC)p 1455 956 V 39 w(SHA1)690 b(0x00)31
b(0x34)323 b(SSL3.0)150 1066 y(TLS)p 330 1066 V 39 w(ANON)p
644 1066 V 40 w(DH)p 821 1066 V 41 w(AES)p 1043 1066
V 39 w(256)p 1217 1066 V 42 w(CBC)p 1455 1066 V 39 w(SHA1)690
b(0x00)31 b(0x3a)323 b(SSL3.0)150 1176 y(TLS)p 330 1176
V 39 w(ANON)p 644 1176 V 40 w(DH)p 821 1176 V 41 w(CAMELLIA)p
1356 1176 V 40 w(128)p 1531 1176 V 41 w(CBC)p 1768 1176
V 40 w(SHA1)376 b(0x00)31 b(0x46)323 b(TLS1.0)150 1285
y(TLS)p 330 1285 V 39 w(ANON)p 644 1285 V 40 w(DH)p 821
1285 V 41 w(CAMELLIA)p 1356 1285 V 40 w(256)p 1531 1285
V 41 w(CBC)p 1768 1285 V 40 w(SHA1)376 b(0x00)31 b(0x89)323
b(TLS1.0)150 1395 y(TLS)p 330 1395 V 39 w(PSK)p 553 1395
V 39 w(SHA)p 779 1395 V 40 w(AR)m(CF)m(OUR)p 1279 1395
V 41 w(SHA1)864 b(0x00)31 b(0x8a)323 b(TLS1.0)150 1504

y(TLS)p 330 1504 V 39 w(PSK)p 553 1504 V 39 w(SHA)p 779
1504 V 40 w(3DES)p 1046 1504 V 40 w(EDE)p 1279 1504 V
40 w(CBC)p 1515 1504 V 40 w(SHA1)629 b(0x00)31 b(0x8b)317
b(TLS1.0)150 1614 y(TLS)p 330 1614 V 39 w(PSK)p 553 1614
V 39 w(SHA)p 779 1614 V 40 w(AES)p 1000 1614 V 39 w(128)p
1174 1614 V 42 w(CBC)p 1412 1614 V 40 w(SHA1)732 b(0x00)31
b(0x8c)328 b(TLS1.0)150 1724 y(TLS)p 330 1724 V 39 w(PSK)p
553 1724 V 39 w(SHA)p 779 1724 V 40 w(AES)p 1000 1724
V 39 w(256)p 1174 1724 V 42 w(CBC)p 1412 1724 V 40 w(SHA1)732
b(0x00)31 b(0x8d)317 b(TLS1.0)150 1833 y(TLS)p 330 1833
V 39 w(DHE)p 568 1833 V 40 w(PSK)p 792 1833 V 40 w(SHA)p
1019 1833 V 39 w(AR)m(CF)m(OUR)p 1518 1833 V 41 w(SHA1)625
b(0x00)31 b(0x8e)328 b(TLS1.0)150 1943 y(TLS)p 330 1943
V 39 w(DHE)p 568 1943 V 40 w(PSK)p 792 1943 V 40 w(SHA)p
1019 1943 V 39 w(3DES)p 1285 1943 V 41 w(EDE)p 1519 1943
V 40 w(CBC)p 1755 1943 V 40 w(SHA1)389 b(0x00)31 b(0x8f)340
b(TLS1.0)150 2052 y(TLS)p 330 2052 V 39 w(DHE)p 568 2052
V 40 w(PSK)p 792 2052 V 40 w(SHA)p 1019 2052 V 39 w(AES)p
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y(TLS)p 330 2162 V 39 w(DHE)p 568 2162 V 40 w(PSK)p 792
2162 V 40 w(SHA)p 1019 2162 V 39 w(AES)p 1239 2162 V
40 w(256)p 1414 2162 V 41 w(CBC)p 1651 2162 V 40 w(SHA1)493
b(0x00)31 b(0x91)323 b(TLS1.0)150 2271 y(TLS)p 330 2271
V 39 w(SRP)p 549 2271 V 39 w(SHA)p 775 2271 V 40 w(3DES)p
1042 2271 V 40 w(EDE)p 1275 2271 V 41 w(CBC)p 1512 2271
V 39 w(SHA1)633 b(0xc0)31 b(0x1a)328 b(TLS1.0)150 2381
y(TLS)p 330 2381 V 39 w(SRP)p 549 2381 V 39 w(SHA)p 775
2381 V 40 w(AES)p 996 2381 V 40 w(128)p 1171 2381 V 41
w(CBC)p 1408 2381 V 40 w(SHA1)736 b(0xc0)31 b(0x1d)322
b(TLS1.0)150 2491 y(TLS)p 330 2491 V 39 w(SRP)p 549 2491
V 39 w(SHA)p 775 2491 V 40 w(AES)p 996 2491 V 40 w(256)p
1171 2491 V 41 w(CBC)p 1408 2491 V 40 w(SHA1)736 b(0xc0)31
b(0x20)328 b(TLS1.0)150 2600 y(TLS)p 330 2600 V 39 w(SRP)p
549 2600 V 39 w(SHA)p 775 2600 V 40 w(DSS)p 986 2600
V 40 w(3DES)p 1253 2600 V 40 w(EDE)p 1486 2600 V 40 w(CBC)p
1722 2600 V 40 w(SHA1)422 b(0xc0)31 b(0x1c)333 b(TLS1.0)150
2710 y(TLS)p 330 2710 V 39 w(SRP)p 549 2710 V 39 w(SHA)p
775 2710 V 40 w(RSA)p 1001 2710 V 40 w(3DES)p 1268 2710
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V 39 w(SRP)p 549 2819 V 39 w(SHA)p 775 2819 V 40 w(DSS)p
986 2819 V 40 w(AES)p 1207 2819 V 39 w(128)p 1381 2819
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V 39 w(SHA)p 775 2929 V 40 w(RSA)p 1001 2929 V 40 w(AES)p
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V 39 w(SHA1)511 b(0xc0)31 b(0x1e)333 b(TLS1.0)150 3039

y(TLS)p 330 3039 V 39 w(SRP)p 549 3039 V 39 w(SHA)p 775
3039 V 40 w(DSS)p 986 3039 V 40 w(AES)p 1207 3039 V 39
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b(0xc0)31 b(0x22)328 b(TLS1.0)150 3148 y(TLS)p 330 3148
V 39 w(SRP)p 549 3148 V 39 w(SHA)p 775 3148 V 40 w(RSA)p
1001 3148 V 40 w(AES)p 1222 3148 V 39 w(256)p 1396 3148
V 42 w(CBC)p 1634 3148 V 39 w(SHA1)511 b(0xc0)31 b(0x21)328
b(TLS1.0)150 3258 y(TLS)p 330 3258 V 39 w(DHE)p 568 3258
V 40 w(DSS)p 779 3258 V 40 w(AR)m(CF)m(OUR)p 1279 3258
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y(TLS)p 330 3367 V 39 w(DHE)p 568 3367 V 40 w(DSS)p 779
3367 V 40 w(3DES)p 1046 3367 V 40 w(EDE)p 1279 3367 V
40 w(CBC)p 1515 3367 V 40 w(SHA1)629 b(0x00)31 b(0x13)323
b(SSL3.0)150 3477 y(TLS)p 330 3477 V 39 w(DHE)p 568 3477
V 40 w(DSS)p 779 3477 V 40 w(AES)p 1000 3477 V 39 w(128)p
1174 3477 V 42 w(CBC)p 1412 3477 V 40 w(SHA1)732 b(0x00)31
b(0x32)323 b(SSL3.0)150 3587 y(TLS)p 330 3587 V 39 w(DHE)p
568 3587 V 40 w(DSS)p 779 3587 V 40 w(AES)p 1000 3587
V 39 w(256)p 1174 3587 V 42 w(CBC)p 1412 3587 V 40 w(SHA1)732
b(0x00)31 b(0x38)323 b(SSL3.0)150 3696 y(TLS)p 330 3696
V 39 w(DHE)p 568 3696 V 40 w(DSS)p 779 3696 V 40 w(CAMELLIA)p
1313 3696 V 40 w(128)p 1488 3696 V 41 w(CBC)p 1725 3696
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1294 3915 V 41 w(CBC)p 1531 3915 V 39 w(SHA1)614 b(0x00)31
b(0x16)323 b(SSL3.0)150 4025 y(TLS)p 330 4025 V 39 w(DHE)p
568 4025 V 40 w(RSA)p 794 4025 V 40 w(AES)p 1015 4025
V 40 w(128)p 1190 4025 V 41 w(CBC)p 1427 4025 V 40 w(SHA1)717
b(0x00)31 b(0x33)323 b(SSL3.0)150 4134 y(TLS)p 330 4134
V 39 w(DHE)p 568 4134 V 40 w(RSA)p 794 4134 V 40 w(AES)p
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y(TLS)p 330 4244 V 39 w(DHE)p 568 4244 V 40 w(RSA)p 794
4244 V 40 w(CAMELLIA)p 1328 4244 V 40 w(128)p 1503 4244
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b(TLS1.0)150 4354 y(TLS)p 330 4354 V 39 w(DHE)p 568 4354
V 40 w(RSA)p 794 4354 V 40 w(CAMELLIA)p 1328 4354 V 40
w(256)p 1503 4354 V 41 w(CBC)p 1740 4354 V 40 w(SHA1)404
b(0x00)31 b(0x88)323 b(TLS1.0)150 4463 y(TLS)p 330 4463
V 39 w(RSA)p 555 4463 V 40 w(NULL)p 845 4463 V 40 w(MD5)1334
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y(TLS)p 330 4682 V 39 w(RSA)p 555 4682 V 40 w(AR)m(CF)m(OUR)p
1055 4682 V 40 w(SHA1)1089 b(0x00)31 b(0x05)323 b(SSL3.0)150
4792 y(TLS)p 330 4792 V 39 w(RSA)p 555 4792 V 40 w(AR)m(CF)m(OUR)p
1055 4792 V 40 w(MD5)1124 b(0x00)31 b(0x04)323 b(SSL3.0)150
4902 y(TLS)p 330 4902 V 39 w(RSA)p 555 4902 V 40 w(3DES)p
822 4902 V 40 w(EDE)p 1055 4902 V 40 w(CBC)p 1291 4902
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y(TLS)p 330 5011 V 39 w(RSA)p 555 5011 V 40 w(AES)p 776
5011 V 39 w(128)p 950 5011 V 42 w(CBC)p 1188 5011 V 39
w(SHA1)957 b(0x00)31 b(0x2f)340 b(SSL3.0)150 5121 y(TLS)p
330 5121 V 39 w(RSA)p 555 5121 V 40 w(AES)p 776 5121
V 39 w(256)p 950 5121 V 42 w(CBC)p 1188 5121 V 39 w(SHA1)957
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V 39 w(RSA)p 555 5230 V 40 w(CAMELLIA)p 1089 5230 V 39
w(128)p 1263 5230 V 42 w(CBC)p 1501 5230 V 39 w(SHA1)644
b(0x00)31 b(0x41)323 b(TLS1.0)150 5340 y(TLS)p 330 5340
V 39 w(RSA)p 555 5340 V 40 w(CAMELLIA)p 1089 5340 V 39
w(256)p 1263 5340 V 42 w(CBC)p 1501 5340 V 39 w(SHA1)644
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FB(.)2970 1489 y([Sc)m(heme)h(Pro)s(cedure))-3600 b Fh
(set-session-protocol-p)q(rio)q(rity)q(!)52 b Ff(session)30
b(items)390 1598 y FB(Use)h Ff(items)j FB(\(a)e(list))f(as)g(the)f
(list)h(of)g(preferred)e(proto)s(col)i(for)f Ff(session)p
FB(.)2970 1786 y([Sc)m(heme)h(Pro)s(cedure))-3600 b Fh
(set-session-kx-priorit)q(y!)52 b Ff(session)30 b(items)390
1896 y FB(Use)h Ff(items)j FB(\(a)e(list))f(as)g(the)f(list)h(of)g
(preferred)e(kx)h(for)g Ff(session)p FB(.)2970 2084 y([Sc)m(heme)h(Pro)
s(cedure))-3600 b Fh(set-session-compressio)q(n-m)q(etho)q(d-p)q(rio)q
(rit)q(y!)52 b Ff(session)30 b(items)390 2193 y FB(Use)h
Ff(items)j FB(\(a)e(list))f(as)g(the)f(list)h(of)g(preferred)e
(compression-metho)s(d)h(for)g Ff(session)p FB(.)2970
2381 y([Sc)m(heme)h(Pro)s(cedure))-3600 b Fh(set-session-mac-priori)q
(ty!)52 b Ff(session)31 b(items)390 2491 y FB(Use)g Ff(items)j
FB(\(a)e(list))f(as)g(the)f(list)h(of)g(preferred)e(mac)i(for)f
Ff(session)p FB(.)2970 2679 y([Sc)m(heme)h(Pro)s(cedure))-3600
b Fh(set-session-cipher-pri)q(ori)q(ty!)52 b Ff(session)30
b(items)390 2788 y FB(Use)h Ff(items)j FB(\(a)e(list))f(as)g(the)f
(list)h(of)g(preferred)e(cipher)h(for)g Ff(session)p
FB(.)2970 2976 y([Sc)m(heme)h(Pro)s(cedure))-3600 b Fh
(set-server-session-cer)q(tif)q(icat)q(e-r)q(equ)q(est)q(!)51
b Ff(session)31 b(request)390 3086 y FB(T)-8 b(ell)66
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(certificate-request/reque)o(st)85 b FB(or)92 b Fs(certificate-)390
3305 y(request/require)p FB(.)2970 3493 y([Sc)m(heme)31
b(Pro)s(cedure))-3600 b Fh(session-our-certificat)q(e-c)q(hain)52
b Ff(session)390 3602 y FB(Return)21 b(our)f(cert\014cate)k(c)m(hain)e
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m(w)g(format)h(\(a)g(u8v)m(ector\).)390 3712 y(In)31
b(the)h(case)g(of)g(Op)s(enPGP)e(there)i(is)f(exactly)j(one)e
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(the)h(\014rst)f(one)h(is)g(the)390 4228 y(p)s(eer's)29
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b Fh(session-client-authent)q(ica)q(ation)q(-ty)q(pe)52
b Ff(session)390 4745 y FB(Return)30 b(the)g(clien)m(ti(authen)m
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b(alue\))31 b(used)e(in)h Ff(session)p FB(.)2970 4933
y([Sc)m(heme)h(Pro)s(cedure)]-3600 b Fh(session-server-authent)q(ica)q
(ation)q(-ty)q(pe)52 b Ff(session)390 5043 y FB(Return)30
b(the)g(serv)m(er)h(authen)m(tication)h(t)m(y)p)s(e)f(\(a)g
Fs(credential-type)26 b FB(v)-5 b(alue\))31 b(used)f(in)g
Ff(session)p FB(.)2970 5230 y([Sc)m(heme)h(Pro)s(cedure)]-3600
b Fh(session-authentication)q(-ty)q(pe)52 b Ff(session)390
5340 y FB(Return)30 b(the)g(authen)m(tication)j(t)m(y)p)s(e)d(\(a)h
Fs(credential-type)c FB(v)-5 b(alue\))31 b(used)e(b)m(y)i
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408 y FB(Return)30 b(the)g(proto)s(col)h(used)f(b)m(y)g
Ff(session)p FB(.)2970 593 y([Sc)m(heme)h(Pro)s(cedure)]-3600
b Fh(session-certificate-ty)q(pe)52 b Ff(session)390
703 y FB(Return)30 b Ff(session)p FB('s)g(cert\014cate)j(t)m(y)p)s(e.)
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b Ff(session)390 1587 y FB(Return)30 b Ff(session)p FB('s)g(kx.)2970
1771 y([Sc)m(heme)h(Pro)s(cedure)]-3600 b Fh(session-cipher)50
b Ff(session)390 1881 y FB(Return)30 b Ff(session)p FB('s)g(cipher.)
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b Ff(session)31 b(lev)m(el)h(alert)390 2176 y FB(Send)d
Ff(alert)34 b FB(via)d Ff(session)p FB(.)2970 2361 y([Sc)m(heme)g(Pro)s
(cedure)]-3600 b Fh(alert-get)48 b Ff(session)390 2470
y FB(Get)31 b(an)g(aleter)g(from)f Ff(session)p FB(.)2970
2655 y([Sc)m(heme)h(Pro)s(cedure)]-3600 b Fh(rehandshake)49
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b Fh(handshake)48 b Ff(session)390 3059 y FB(P)m(erform)30
b(a)h(handshak)m(e)f(for)g Ff(session)p FB(.)2970 3244
y([Sc)m(heme)h(Pro)s(cedure)]-3600 b Fh(bye)46 b Ff(session)31
b(ho)m(w)390 3354 y FB(Close)g Ff(session)f FB(according)i(to)f
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b Fh(make-session)49 b Ff(end)390 3648 y FB(Return)44
b(a)i(new)e(session)i(for)e(connection)j(end)d Ff(end)t
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b Ff(ob)5 b(j)390 4456 y FB(Return)30 b(true)g(if)g Ff(ob)5
b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h Fs(x509-private-key)p
FB(.)2970 4641 y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh
(x509-certificate?)51 b Ff(ob)5 b(j)390 4751 y FB(Return)30
b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h
Fs(x509-certificate)p FB(.)2970 4936 y([Sc)m(heme)g(Pro)s(cedure))-3600
b Fh(psk-client-credentials)q(?)51 b Ff(ob)5 b(j)390
5045 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)
s(e)h Fs(psk-client-credentials)p FB(.)2970 5230 y([Sc)m(heme)g(Pro)s
(cedure))-3600 b Fh(psk-server-credentials)q(?)51 b Ff(ob)5
b(j)390 5340 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33
b FB(is)e(of)f(t)m(yp)s(e)h Fs(psk-server-credentials)p
FB(.)p eop end
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b(Pro)s(cedure))-3600 b Fh(srp-client-credentials)q(?)51
b Ff(ob)5 b(j)390 408 y FB(Return)30 b(true)g(if)g Ff(ob)5
b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h Fs(srp-client-credentials)p
FB(.)2970 589 y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh
(srp-server-credentials)q(?)51 b Ff(ob)5 b(j)390 699
y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h
Fs(srp-server-credentials)p FB(.)2970 879 y([Sc)m(heme)g(Pro)s(cedure))
-3600 b Fh(certificate-credential)q(s?)52 b Ff(ob)5 b(j)390
989 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)s
(e)h Fs(certificate-credentials)p FB(.)2970 1169 y([Sc)m(heme)g(Pro)s
(cedure))-3600 b Fh(rsa-parameters?)50 b Ff(ob)5 b(j)390
1279 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)
s(e)h Fs(rsa-parameters)p FB(.)2970 1459 y([Sc)m(heme)g(Pro)s(cedure))
-3600 b Fh(dh-parameters?)50 b Ff(ob)5 b(j)390 1569 y
FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h
Fs(dh-parameters)p FB(.)2970 1749 y([Sc)m(heme)g(Pro)s(cedure))-3600
b Fh(anonymous-server-crede)q(ntl)q(als?)52 b Ff(ob)5
b(j)390 1859 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33
b FB(is)e(of)f(t)m(yp)s(e)h Fs(anonymous-server-crede)q(ntl)q(als?)52
FB(.)2970 2039 y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh
(anonymous-client-crede)q(ntl)q(als?)52 b Ff(ob)5 b(j)390
2149 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)
s(e)h Fs(anonymous-client-crede)q(ntl)q(als?)52 p FB(.)2970
2329 y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh(session?)48
b Ff(ob)5 b(j)390 2439 y FB(Return)30 b(true)g(if)g Ff(ob)5
b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h Fs(session)p FB(.)2970
2620 y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh(error->string)49

b Ff(en)m(um)m(v)-5 b(al)390 2729 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(error)f FB(v)-5 b(alue.)2970 2910 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(certificate-verify->st)q(rin)q(g)51
b Ff(en)m(um)m(v)-5 b(al)390 3019 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(certificate-verify)c FB(v)-5 b(alue.)2970 3200 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(key-usage->string)51 b Ff(en)m(um)m(v)-5
b(al)390 3309 y FB(Return)30 b(a)g(string)h(describing)f
Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f Fs(key-usage)e
FB(v)-5 b(alue.)2970 3490 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
b Fh(psk-key-format->string)52 b Ff(en)m(um)m(v)-5 b(al)390
3599 y FB(Return)30 b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5
b(al)t FB(,)31 b(a)f Fs(psk-key-format)d FB(v)-5 b(alue.)2970
3780 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(sign-algorithm->string)
52 b Ff(en)m(um)m(v)-5 b(al)390 3890 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(sign-algorithm)d FB(v)-5 b(alue.)2970 4070 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(pk-algorithm->string)52 b
Ff(en)m(um)m(v)-5 b(al)390 4180 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(pk-algorithm)d FB(v)-5 b(alue.)2970 4360 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(x509-subject-alternati)q(ve-)q(name)q(->s)q
(tri)q(ng)52 b Ff(en)m(um)m(v)-5 b(al)390 4470 y FB(Return)30
b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5 b(al)t
FB(,)31 b(a)f Fs(x509-subject-alternative-n)o(ame)24
b FB(v)-5 b(alue.)2970 4650 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
b Fh(x509-certificate-forma)q(t->)q(stri)q(ng)52 b Ff(en)m(um)m(v)-5
b(al)390 4760 y FB(Return)30 b(a)g(string)h(describing)f
Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f Fs(x509-certificate-format)24
b FB(v)-5 b(alue.)2970 4940 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
b Fh(certificate-type->stri)q(ng)52 b Ff(en)m(um)m(v)-5
b(al)390 5050 y FB(Return)30 b(a)g(string)h(describing)f
Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f Fs(certificate-type)c
FB(v)-5 b(alue.)2970 5230 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
b Fh(protocol->string)50 b Ff(en)m(um)m(v)-5 b(al)390
5340 y FB(Return)30 b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5
b(al)t FB(,)31 b(a)f Fs(protocol)f FB(v)-5 b(alue.)p
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b(Guile)31 b(Bindings)2363 b(293)2970 299 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(close-request->string)52 b
Ff(en)m(um)m(v)-5 b(al)390 408 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(close-request)d FB(v)-5 b(alue.)2970 590 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(certificate-request->s)q(tri)q(ng)52
b Ff(en)m(um)m(v)-5 b(al)390 700 y FB(Return)30 b(a)g(string)h

(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(certificate-request)25 b FB(v)-5 b(alue.)2970 881
y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(certificate-status->st)q
(rin)q(g)51 b Ff(en)m(um)m(v)-5 b(al)390 991 y FB(Return)30
b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5 b(al)t
FB(,)31 b(a)f Fs(certificate-status)c FB(v)-5 b(alue.)2970
1172 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(handshake-description-
q(>st)q(ring)52 b Ff(en)m(um)m(v)-5 b(al)390 1282 y FB(Return)30
b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5 b(al)t
FB(,)31 b(a)f Fs(handshake-description)25 b FB(v)-5 b(alue.)2970
1464 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(alert-description->str
q(ing)52 b Ff(en)m(um)m(v)-5 b(al)390 1573 y FB(Return)30
b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5 b(al)t
FB(,)31 b(a)f Fs(alert-description)c FB(v)-5 b(alue.)2970
1755 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(alert-level->string)51
b Ff(en)m(um)m(v)-5 b(al)390 1864 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(alert-level)e FB(v)-5 b(alue.)2970 2046 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(connection-end->string)52
b Ff(en)m(um)m(v)-5 b(al)390 2156 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(connection-end)d FB(v)-5 b(alue.)2970 2337 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(compression-method->st)q(rin)q(g)51
b Ff(en)m(um)m(v)-5 b(al)390 2447 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(compression-method)c FB(v)-5 b(alue.)2970 2628 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(digest->string)50 b Ff(en)m(um)m(v)-5
b(al)390 2738 y FB(Return)30 b(a)g(string)h(describing)f
Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f Fs(digest)f FB(v)-5
b(alue.)2970 2920 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
b Fh(mac->string)49 b Ff(en)m(um)m(v)-5 b(al)390 3029
y FB(Return)30 b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5
b(al)t FB(,)31 b(a)f Fs(mac)g FB(v)-5 b(alue.)2970 3211
y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(credentials->string)51
b Ff(en)m(um)m(v)-5 b(al)390 3320 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(credentials)e FB(v)-5 b(alue.)2970 3502 y([Sc)m(heme)31
b(Pro)s(cedure)]-3600 b Fh(params->string)50 b Ff(en)m(um)m(v)-5
b(al)390 3612 y FB(Return)30 b(a)g(string)h(describing)f
Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f Fs(params)f FB(v)-5
b(alue.)2970 3793 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
b Fh(kx->string)48 b Ff(en)m(um)m(v)-5 b(al)390 3903
y FB(Return)30 b(a)g(string)h(describing)f Ff(en)m(um)m(v)-5
b(al)t FB(,)31 b(a)f Fs(kx)g FB(v)-5 b(alue.)2970 4084
y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(cipher->string)50
b Ff(en)m(um)m(v)-5 b(al)390 4194 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(,)31 b(a)f
Fs(cipher)f FB(v)-5 b(alue.)150 4391 y Fu(11.4.2)63 b(Extra)40

b(In)m(terface)150 4538 y FB(This)c(section)i(lists)f(the)h(Sc)m(heme)f
 (pro)s(cedures)e(exp)s(orted)i(b)m(y)g(the)g Fs(\(gnutls)28
 b(extra\))35 b FB(mo)s(dule.)60 b(This)150 4648 y(mo)s(dule)30
 b(is)g(licenced)i(under)c(the)j(GNU)g(General)g(Public)f(Licence,)i(v)m
 (ersion)f(3)g(or)f(later.)2970 4830 y([Sc)m(heme)h(Pro)s(cedure)]-3600
 b Fh(set-certificate-creden)q(tia)q(ls-o)q(pen)q(pgp)q(-ke)q(ys!)52
 b Ff(cred)30 b(pub)565 4939 y(sec)390 5049 y FB(Use)h(cert)014cate)h
 Ff(pub)f FB(and)f(secret)h(k)m(ey)g Ff(sec)37 b FB(in)30
 b(cert)014cate)i(creden)m(tials)g Ff(cred)t FB(.)2970
 5230 y([Sc)m(heme)f(Pro)s(cedure)]-3600 b Fh(openpgp-keyring-contai)q
 (ns-)q(key-)q(id?)52 b Ff(k)m(eyring)31 b(id)390 5340
 y FB(Return)f Fs(#f) FB(if)i(k)m(ey)g(ID)f Ff(id)k FB(is)c(in)h
 Ff(k)m(eyring)8 b FB(.)31 b Fs(#f)e FB(otherwise.)p eop
 end
 %%Page: 294 300
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 b(Guile)31 b(Bindings)2363 b(294)2970 299 y([Sc)m(heme)31
 b(Pro)s(cedure)]-3600 b Fh(import-openpgp-keyring)52
 b Ff(data)31 b(format)390 408 y FB(Imp)s(ort)e Ff(data)i
 FB(\(a)h(u8v)m(ector\))g(according)f(to)g Ff(format)i
 FB(and)d(return)f(the)i(imp)s(orted)e(k)m(eyring.)2970
 593 y([Sc)m(heme)i(Pro)s(cedure)]-3600 b Fh(openpgp-certificate-us)q
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 b(alues)31 b(denoting)f(the)h(k)m(ey)g(usage)g(of)g Ff(k)m(ey)8
 b FB(.)2970 887 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
 b Fh(openpgp-certificate-ve)q(rsi)q(on)52 b Ff(k)m(ey)390
 996 y FB(Return)30 b(the)g(v)m(ersion)h(of)g(the)f(Op)s(enPGP)f
 (message)j(format)e(\(RF)m(C2440\))k(honored)29 b(b)m(y)i
 Ff(k)m(ey)8 b FB(.)2970 1181 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600
 b Fh(openpgp-certificate-al)q(gor)q(ithm)52 b Ff(k)m(ey)390
 1290 y FB(Return)24 b(t)m(w)m(o)j(v)-5 b(alues:)38 b(the)25
 b(cert)014cate)j(algorithm)e(used)e(b)m(y)h Ff(k)m(ey)34
 b FB(and)24 b(the)h(n)m(um)m(b)s(er)f(of)h(bits)g(used.)2970
 1474 y([Sc)m(heme)31 b(Pro)s(cedure)]-3600 b Fh(openpgp-certificate-na)
 q(mes)52 b Ff(k)m(ey)390 1584 y FB(Return)30 b(the)g(list)h(of)g(names)
 f(for)g Ff(k)m(ey)8 b FB(.)2970 1768 y([Sc)m(heme)31
 b(Pro)s(cedure)]-3600 b Fh(openpgp-certificate-na)q(me)52
 b Ff(k)m(ey)31 b(index)390 1878 y FB(Return)f(the)g Ff(index)6
 b FB(th)30 b(name)h(of)f Ff(k)m(ey)8 b FB(.)2970 2062
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 (nge)q(rpri)q(nt)52 b Ff(k)m(ey)390 2172 y FB(Return)30
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 (the)d(\014ngerprin)m(t)g(of)h Ff(k)m(ey)8 b FB(.)51
 b(Return)33 b(the)h(n)m(um)m(b)s(er)f(of)h(b)m(ytes)g(stored)390
 2575 y(in)c Ff(fpr)7 b FB(.)2970 2760 y([Sc)m(heme)31

b(Pro)s(cedure))-3600 b Fh(openpgp-certificate-id)q(!)51
b Ff(k)m(ey)32 b(id)390 2869 y FB(Store)f(the)f(ID)h(\(an)f(8)h(b)m
(yte)g(sequence\))g(of)g(cert\014cate)h Ff(k)m(ey)39
b FB(in)30 b Ff(id)k FB(\(a)d(u8v)m(ector\).)2970 3054
y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh(openpgp-certificate-id)52
b Ff(k)m(ey)390 3163 y FB(Return)30 b(the)g(ID)h(\(an)f(8-elemen)m(t)j
(u8v)m(ector\))f(of)f(cert\014cate)h Ff(k)m(ey)8 b FB(.)2970
3347 y([Sc)m(heme)31 b(Pro)s(cedure))-3600 b Fh(import-openpgp-private)
q(-ke)q(y)51 b Ff(data)31 b(format)g Fd(\)p Ff(pass)p
Fd(\)390 3457 y FB(Return)42 b(a)i(new)e(Op)s(enPGP)g(priv)-5
b(ate)43 b(k)m(ey)h(ob)5 b(ject)44 b(resulting)f(from)g(the)g(imp)s
(ort)f(of)h Ff(data)h FB(\(a)390 3567 y(uniform)29 b(arram(y\))i
(according)h(to)f Ff(format)r FB(.)41 b(Optionally)-8
b(.)32 b(a)e(passphrase)g(ma)m(y)h(b)s(e)e(pro)m(vided.)2970
3751 y([Sc)m(heme)i(Pro)s(cedure))-3600 b Fh(import-openpgp-certifi)q
(cat)q(e)51 b Ff(data)31 b(format)390 3861 y FB(Return)20
b(a)h(new)f(Op)s(enPGP)f(cert\014cate)k(ob)5 b(ject)22
b(resulting)e(from)h(the)g(imp)s(ort)f(of)g Ff(data)i
FB(\(a)f(uniform)390 3970 y(arram(y\))31 b(according)h(to)f
Ff(format)r FB(.)2970 4154 y([Sc)m(heme)g(Pro)s(cedure))-3600
b Fh(openpgp-certificate-fo)q(rma)q(t->s)q(tri)q(ng)52
b Ff(en)m(um)m(v)-5 b(al)390 4264 y FB(Return)30 b(a)g(string)h
(describing)f Ff(en)m(um)m(v)-5 b(al)t FB(.)31 b(a)f
Fs(openpgp-certificate-format)24 b FB(v)-5 b(alue.)2970
4448 y([Sc)m(heme)31 b(Pro)s(cedure))-3600 b Fh(openpgp-keyring?)50
b Ff(ob)5 b(j)390 4558 y FB(Return)30 b(true)g(if)g Ff(ob)5
b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h Fs(openpgp-keyring)p
FB(.)2970 4742 y([Sc)m(heme)g(Pro)s(cedure))-3600 b Fh
(openpgp-private-key?)52 b Ff(ob)5 b(j)390 4852 y FB(Return)30
b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)s(e)h
Fs(openpgp-private-key)p FB(.)2970 5036 y([Sc)m(heme)g(Pro)s(cedure))
-3600 b Fh(openpgp-certificate?)52 b Ff(ob)5 b(j)390
5146 y FB(Return)30 b(true)g(if)g Ff(ob)5 b(j)33 b FB(is)e(of)f(t)m(yp)
s(e)h Fs(openpgp-certificate)p FB(.)p eop end
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(brief)g(description)g(of)g(the)g(w)m(a)m(y)g Ft(Gn)n(uTLS)g
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1317 y(an)28 b(idea)g(to)h(p)s(oten)m(tial)g(dev)m(elop)s(ers)f(and)f
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(the)g(blac)m(k)150 1426 y(b)s(o)m(x.)150 1996 y FA(12.1)68
b(The)45 b(TLS)f(Proto)t(col)150 2155 y FB(The)30 b(main)g(needs)g(for)
g(the)h(TLS)e(proto)s(col)i(to)h(b)s(ed)h(used)h(are)h(sho)m(w)n(e(in)h
(the)h(image)h(b)s(elo)m(w.)150 4597 y @beginspecial
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/acute /mu /paragraph /periodcentered /cedilla /onesuperior /ordmasculine /guillemotright /onequarter /onehalf
/threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
/Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
/Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex
/Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
/ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
/eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
/uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
/cp {closepath} bind def
/c {curveto} bind def
/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gs {gsave} bind def
/sa {save} bind def

```



```

/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
/endangle exch def
/startangle exch def
/yrad exch def
/xrad exch def
/y exch def
/x exch def /savematrix mtrx currentmatrix def
x y tr xrad yrad sc
0 0 1 startangle endangle arc
savematrix setmatrix
end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll

```

```

0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
  /p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
  /p2_x p1_x to_x p0_x sub 1 3 div mul add def
  /p2_y p1_y to_y p0_y sub 1 3 div mul add def
  p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-2.250000 -10.950000 translate
%%EndProlog

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 3.550000 4.000000 0.300000 0.300000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 3.550000 4.000000 0.300000 0.300000 0 360 ellipse cp s
n 2.350000 4.600000 m 4.750000 4.600000 l s
n 3.550000 4.300000 m 3.550000 5.800000 l s
n 3.550000 5.800000 m 2.350000 7.100000 l s
n 3.550000 5.800000 m 4.750000 7.100000 l s
gsave 2.677933 8.300000 translate 0.035278 -0.035278 scale
start_ol
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto

```

1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_of grestore
gsave 3.101267 8.300000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 3.270600 8.300000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 3.439933 8.300000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto

256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 3.812467 8.300000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 4.201933 8.300000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto

128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 16.700000 3.500000 0.300000 0.300000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 16.700000 3.500000 0.300000 0.300000 0 360 ellipse cp s
n 15.500000 4.100000 m 17.900000 4.100000 l s
n 16.700000 3.800000 m 16.700000 5.300000 l s
n 16.700000 5.300000 m 15.500000 6.600000 l s
n 16.700000 5.300000 m 17.900000 6.600000 l s
gsave 15.696700 7.800000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 16.086167 7.800000 translate 0.035278 -0.035278 scale

start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 16.458700 7.800000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 16.712700 7.800000 translate 0.035278 -0.035278 scale
start_ol
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto

2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_ol grestore
gsave 17.076767 7.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 17.449300 7.800000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore

```

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 8.850000 2.783330 m 8.850000 4.583330 l 11.600000 4.583330 l 11.600000 2.783330 l f
n 8.850000 3.683330 m 8.850000 3.683330 0.900000 0.900000 180.000000 270.000000 ellipse f
n 11.600000 3.683330 m 11.600000 3.683330 0.900000 0.900000 270.000000 360.000000 ellipse f
n 7.950000 3.683330 m 7.950000 3.683330 l 12.500000 3.683330 l 12.500000 3.683330 l f
n 8.850000 3.683330 m 8.850000 3.683330 0.900000 0.900000 90.000000 180.000000 ellipse f
n 11.600000 3.683330 m 11.600000 3.683330 0.900000 0.900000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 8.850000 2.783330 m 11.600000 2.783330 l s
n 8.850000 4.583330 m 11.600000 4.583330 l s
n 8.850000 3.683330 0.900000 0.900000 180.000000 270.000000 ellipse s
n 11.600000 3.683330 0.900000 0.900000 270.000000 360.000000 ellipse s
n 7.950000 3.683330 m 7.950000 3.683330 l s
n 12.500000 3.683330 m 12.500000 3.683330 l s
n 8.850000 3.683330 0.900000 0.900000 90.000000 180.000000 ellipse s
n 11.600000 3.683330 0.900000 0.900000 0.000000 90.000000 ellipse s
gsave 8.540133 3.883330 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
896 3328 lineto
896 1984 lineto
2560 1984 lineto
2560 3328 lineto
3008 3328 lineto
3008 0 lineto
2560 0 lineto
2560 1600 lineto
896 1600 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 8.997333 3.883330 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto

```


1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 9.369867 3.883330 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 9.759333 3.883330 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto

1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave 10.148800 3.883330 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto

end_of grestore
gsave 10.470533 3.883330 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 10.860000 3.883330 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto

448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 11.232533 3.883330 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 11.562733 3.883330 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
0.100000 slw
[] 0 sd

1.000000 1.000000 1.000000 srgb
n 9.000000 5.966670 m 9.000000 7.766670 l 11.450000 7.766670 l 11.450000 5.966670 l f
n 9.000000 6.866670 m 9.000000 6.866670 0.900000 0.900000 180.000000 270.000000 ellipse f
n 11.450000 6.866670 m 11.450000 6.866670 0.900000 0.900000 270.000000 360.000000 ellipse f
n 8.100000 6.866670 m 8.100000 6.866670 l 12.350000 6.866670 l 12.350000 6.866670 l f
n 9.000000 6.866670 m 9.000000 6.866670 0.900000 0.900000 90.000000 180.000000 ellipse f
n 11.450000 6.866670 m 11.450000 6.866670 0.900000 0.900000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 9.000000 5.966670 m 11.450000 5.966670 l s
n 9.000000 7.766670 m 11.450000 7.766670 l s
n 9.000000 6.866670 0.900000 0.900000 180.000000 270.000000 ellipse s
n 11.450000 6.866670 0.900000 0.900000 270.000000 360.000000 ellipse s
n 8.100000 6.866670 m 8.100000 6.866670 l s
n 12.350000 6.866670 m 12.350000 6.866670 l s
n 9.000000 6.866670 0.900000 0.900000 90.000000 180.000000 ellipse s
n 11.450000 6.866670 0.900000 0.900000 0.000000 90.000000 ellipse s
gsave 8.701000 7.066670 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore

gsave 9.090467 7.066670 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 9.463000 7.066670 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 9.852467 7.066670 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto

2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 10.241933 7.066670 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.436667 7.066670 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto

1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave 10.826133 7.066670 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 11.198667 7.066670 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto

1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 11.435733 7.066670 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 8.625000 9.150000 m 8.625000 10.950000 l 11.825000 10.950000 l 11.825000 9.150000 l f

n 8.625000 10.050000 m 8.625000 10.050000 0.900000 0.900000 180.000000 270.000000 ellipse f
n 11.825000 10.050000 m 11.825000 10.050000 0.900000 0.900000 270.000000 360.000000 ellipse f
n 7.725000 10.050000 m 7.725000 10.050000 l 12.725000 10.050000 l 12.725000 10.050000 l f
n 8.625000 10.050000 m 8.625000 10.050000 0.900000 0.900000 90.000000 180.000000 ellipse f
n 11.825000 10.050000 m 11.825000 10.050000 0.900000 0.900000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 8.625000 9.150000 m 11.825000 9.150000 l s
n 8.625000 10.950000 m 11.825000 10.950000 l s
n 8.625000 10.050000 0.900000 0.900000 180.000000 270.000000 ellipse s
n 11.825000 10.050000 0.900000 0.900000 270.000000 360.000000 ellipse s
n 7.725000 10.050000 m 7.725000 10.050000 l s
n 12.725000 10.050000 m 12.725000 10.050000 l s
n 8.625000 10.050000 0.900000 0.900000 90.000000 180.000000 ellipse s
n 11.825000 10.050000 0.900000 0.900000 0.000000 90.000000 ellipse s
gsave 8.277667 10.250000 translate 0.035278 -0.035278 scale
start_ol
2075 1568 moveto
2215 1519 2346 1356 conicto
2478 1194 2612 910 conicto
3072 0 lineto
2587 0 lineto
2184 855 lineto
2012 1189 1850 1298 conicto
1688 1408 1409 1408 conicto
896 1408 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
1488 3328 lineto
2060 3328 2342 3090 conicto
2624 2853 2624 2374 conicto
2624 2061 2484 1854 conicto
2344 1648 2075 1568 conicto
896 2944 moveto
896 1792 lineto
1488 1792 lineto
1829 1792 2002 1939 conicto
2176 2086 2176 2370 conicto
2176 2655 2002 2799 conicto
1829 2944 1488 2944 conicto
896 2944 lineto
end_ol grestore
gsave 8.675600 10.250000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto

1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 9.048133 10.250000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 9.386800 10.250000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto

1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 9.759333 10.250000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 9.928667 10.250000 translate 0.035278 -0.035278 scale
start_ol
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_ol grestore
gsave 10.292733 10.250000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto

1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 10.665267 10.250000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.860000 10.250000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore

gsave 11.249467 10.250000 translate 0.035278 -0.035278 scale

start_ol

1559 1280 moveto

1040 1280 840 1160 conicto

640 1041 640 754 conicto

640 525 790 390 conicto

940 256 1198 256 conicto

1554 256 1769 510 conicto

1984 765 1984 1187 conicto

1984 1280 lineto

1559 1280 lineto

2368 1449 moveto

2368 0 lineto

1984 0 lineto

1984 384 lineto

1842 154 1628 45 conicto

1415 -64 1107 -64 conicto

717 -64 486 154 conicto

256 372 256 739 conicto

256 1166 539 1383 conicto

822 1600 1384 1600 conicto

1984 1600 lineto

1984 1641 lineto

1984 1927 1796 2083 conicto

1608 2240 1266 2240 conicto

1049 2240 843 2192 conicto

638 2144 448 2048 conicto

448 2432 lineto

673 2496 884 2528 conicto

1095 2560 1295 2560 conicto

1835 2560 2101 2284 conicto

2368 2009 2368 1449 conicto

end_ol grestore

gsave 11.622000 10.250000 translate 0.035278 -0.035278 scale

start_ol

832 3200 moveto

832 2496 lineto

1664 2496 lineto

1664 2176 lineto

832 2176 lineto

832 804 lineto

832 495 914 407 conicto

997 320 1248 320 conicto

1664 320 lineto

1664 0 lineto

1248 0 lineto

793 0 620 173 conicto

448 347 448 804 conicto

448 2176 lineto
 128 2176 lineto
 128 2496 lineto
 448 2496 lineto
 448 3200 lineto
 832 3200 lineto
 end_of grestore
 gsave 11.859067 10.250000 translate 0.035278 -0.035278 scale
 start_of
 1559 1280 moveto
 1040 1280 840 1160 conicto
 640 1041 640 754 conicto
 640 525 790 390 conicto
 940 256 1198 256 conicto
 1554 256 1769 510 conicto
 1984 765 1984 1187 conicto
 1984 1280 lineto
 1559 1280 lineto
 2368 1449 moveto
 2368 0 lineto
 1984 0 lineto
 1984 384 lineto
 1842 154 1628 45 conicto
 1415 -64 1107 -64 conicto
 717 -64 486 154 conicto
 256 372 256 739 conicto
 256 1166 539 1383 conicto
 822 1600 1384 1600 conicto
 1984 1600 lineto
 1984 1641 lineto
 1984 1927 1796 2083 conicto
 1608 2240 1266 2240 conicto
 1049 2240 843 2192 conicto
 638 2144 448 2048 conicto
 448 2432 lineto
 673 2496 884 2528 conicto
 1095 2560 1295 2560 conicto
 1835 2560 2101 2284 conicto
 2368 2009 2368 1449 conicto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 8.900000 -1.200000 m 8.900000 1.400000 l 11.550000 1.400000 l 11.550000 -1.200000 l f
 n 8.900000 -0.200000 m 8.900000 -0.200000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 11.550000 -0.200000 m 11.550000 -0.200000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 7.900000 -0.200000 m 7.900000 0.400000 l 12.550000 0.400000 l 12.550000 -0.200000 l f
 n 8.900000 0.400000 m 8.900000 0.400000 1.000000 1.000000 90.000000 180.000000 ellipse f

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n 11.550000 0.400000 m 11.550000 0.400000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 8.900000 -1.200000 m 11.550000 -1.200000 l s
n 8.900000 1.400000 m 11.550000 1.400000 l s
n 8.900000 -0.200000 1.000000 1.000000 180.000000 270.000000 ellipse s
n 11.550000 -0.200000 1.000000 1.000000 270.000000 360.000000 ellipse s
n 7.900000 -0.200000 m 7.900000 0.400000 l s
n 12.550000 -0.200000 m 12.550000 0.400000 l s
n 8.900000 0.400000 1.000000 1.000000 90.000000 180.000000 ellipse s
n 11.550000 0.400000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave 8.552833 -0.100000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
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256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 8.874567 -0.100000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto

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1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
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2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 9.247100 -0.100000 translate 0.035278 -0.035278 scale
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832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 9.484167 -0.100000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 9.678900 -0.100000 translate 0.035278 -0.035278 scale
start_of
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2048 2048 lineto

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1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 10.000633 -0.100000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
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1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
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2240 1472 moveto
2235 1822 2043 2031 conicto

1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
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start_of
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957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
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2176 343 1899 139 conicto
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936 -64 717 -32 conicto
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256 512 lineto
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1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
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end_of grestore
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start_of
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957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto

1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 11.016633 -0.100000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 11.185967 -0.100000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto

2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 11.558500 -0.100000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 8.472400 0.700000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
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2688 659 2398 297 conicto
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963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto

832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 8.861867 0.700000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 9.234400 0.700000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 9.488400 0.700000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
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2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
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end_of grestore
gsave 9.860933 0.700000 translate 0.035278 -0.035278 scale
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2431 2020 moveto
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2112 0 lineto
2112 1496 lineto
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1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 10.453600 0.700000 translate 0.035278 -0.035278 scale
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2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto

end_ol grestore
gsave 10.826133 0.700000 translate 0.035278 -0.035278 scale
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832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 11.063200 0.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
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2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
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750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore

gsave 11.435733 0.700000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore

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start_ol
2048 2432 moveto
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957 2240 798 2144 conicto
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1380 1435 lineto
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2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
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1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto

1875 2496 2048 2432 conicto
end_of grestore
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0 slc
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[] 0 sd
0 slc
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0 slc
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0 slc
n 4.800000 5.800000 m 7.725000 10.050000 1 s
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0 slc
n 15.450000 5.300000 m 12.550000 0.100000 1 s
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0 slc
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[] 0 sd
[] 0 sd
0 slc
n 15.450000 5.300000 m 12.350000 6.866670 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 15.450000 5.300000 m 12.725000 10.050000 1 s
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/space /exclamdown /cent /sterling /currency /yen /brokenbar /section /dieresis /copyright
/ordfeminine /guillemotleft /logicalnot /hyphen /registered /macron /degree /plusminus /twosuperior /threesuperior
/acute /mu /paragraph /periodcentered /cedilla /onesuperior /ordmasculine /guillemotright /onequarter /onehalf
/threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
/Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
/Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex
/Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
/ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
/eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
/uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def

```

```

/cp {closepath} bind def
/c {curveto} bind def
/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gs {gsave} bind def
/sa {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

```

```

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
  /endangle exch def
  /startangle exch def
  /yrad exch def
  /xrad exch def
  /y exch def
  /x exch def /savematrix mtrx currentmatrix def
  x y tr xrad yrad sc
  0 0 1 startangle endangle arc
  savematrix setmatrix
  end
} def

```

```

/mergeprocs {
dup length
3 -1 roll

```

```

dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
  /p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
  /p2_x p1_x to_x p0_x sub 1 3 div mul add def
  /p2_y p1_y to_y p0_y sub 1 3 div mul add def
  p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
30.100000 -44.650000 translate
%%EndProlog

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -30.050000 -10.700000 m -30.050000 44.600000 l 60.299983 44.600000 l 60.299983 -10.700000 l f
0.000000 0.000000 0.000000 srgb
n -30.050000 -10.700000 m -30.050000 44.600000 l 60.299983 44.600000 l 60.299983 -10.700000 l cp s
1.000000 1.000000 1.000000 srgb
n -30.050000 -11.700000 m -30.050000 -10.700000 l -27.750000 -10.700000 l -27.750000 -11.700000 l f
0.000000 0.000000 0.000000 srgb
n -30.050000 -11.700000 m -30.050000 -10.700000 l -27.750000 -10.700000 l -27.750000 -11.700000 l cp s

```

gsave -29.950000 -10.950000 translate 0.035278 -0.035278 scale

start_ol

2048 1282 moveto

2048 1752 1880 1996 conicto

1713 2240 1393 2240 conicto

1057 2240 880 1996 conicto

704 1752 704 1282 conicto

704 813 881 566 conicto

1059 320 1397 320 conicto

1713 320 1880 567 conicto

2048 815 2048 1282 conicto

2432 167 moveto

2432 -388 2144 -674 conicto

1856 -960 1297 -960 conicto

1114 -960 913 -927 conicto

713 -895 512 -832 conicto

512 -448 lineto

759 -546 960 -593 conicto

1162 -640 1330 -640 conicto

1706 -640 1877 -460 conicto

2048 -280 2048 111 conicto

2048 128 lineto

2048 396 lineto

1941 196 1755 98 conicto

1570 0 1304 0 conicto

826 0 541 348 conicto

256 696 256 1279 conicto

256 1864 541 2212 conicto

826 2560 1304 2560 conicto

1567 2560 1750 2470 conicto

1933 2381 2048 2195 conicto

2048 2496 lineto

2432 2496 lineto

2432 167 lineto

end_ol grestore

gsave -29.585933 -10.950000 translate 0.035278 -0.035278 scale

start_ol

2368 1575 moveto

2368 0 lineto

1984 0 lineto

1984 1575 lineto

1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto

832 1824 832 1436 conicto

832 0 lineto

448 0 lineto

448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -29.221867 -10.950000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -28.857800 -10.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave -28.493733 -10.950000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -28.129667 -10.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -28.550000 26.100000 m -28.550000 27.500000 1 -2.200000 27.500000 1 -2.200000 26.100000 1 f
0.000000 0.000000 0.000000 srgb
n -28.550000 26.100000 m -28.550000 27.500000 1 -2.200000 27.500000 1 -2.200000 26.100000 1 cp s
gsave -16.954033 27.100000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave -16.496833 27.100000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto

3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave -15.980367 27.100000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore

gsave -15.523167 27.100000 translate 0.035278 -0.035278 scale

start_ol

3008 3072 moveto

3008 2304 lineto

2690 2432 2394 2496 conicto

2098 2560 1835 2560 conicto

1553 2560 1416 2490 conicto

1280 2420 1280 2274 conicto

1280 2156 1380 2093 conicto

1480 2030 1739 2000 conicto

1907 1975 lineto

2671 1876 2935 1651 conicto

3200 1426 3200 946 conicto

3200 443 2827 189 conicto

2455 -64 1717 -64 conicto

1404 -64 1070 -16 conicto

737 32 384 128 conicto

384 896 lineto

685 736 1002 656 conicto

1320 576 1646 576 conicto

1942 576 2091 661 conicto

2240 746 2240 913 conicto

2240 1054 2142 1123 conicto

2045 1192 1755 1231 conicto

1586 1254 lineto

884 1336 602 1559 conicto

320 1783 320 2237 conicto

320 2726 668 2963 conicto

1017 3200 1737 3200 conicto

2020 3200 2331 3169 conicto

2642 3138 3008 3072 conicto

end_ol grestore

gsave -15.065967 27.100000 translate 0.035278 -0.035278 scale

start_ol

512 3136 moveto

1536 3136 lineto

1536 0 lineto

512 0 lineto

512 3136 lineto

512 4352 moveto

1536 4352 lineto

1536 3520 lineto

512 3520 lineto

512 4352 lineto

end_ol grestore

gsave -14.803500 27.100000 translate 0.035278 -0.035278 scale

start_ol

1988 2496 moveto

1642 2496 1461 2257 conicto
 1280 2018 1280 1568 conicto
 1280 1118 1461 879 conicto
 1642 640 1988 640 conicto
 2328 640 2508 879 conicto
 2688 1118 2688 1568 conicto
 2688 2018 2508 2257 conicto
 2328 2496 1988 2496 conicto
 1988 3200 moveto
 2800 3200 3256 2767 conicto
 3712 2334 3712 1568 conicto
 3712 802 3256 369 conicto
 2800 -64 1988 -64 conicto
 1173 -64 714 369 conicto
 256 802 256 1568 conicto
 256 2334 714 2767 conicto
 1173 3200 1988 3200 conicto
 end_of grestore
 gsave -14.278567 27.100000 translate 0.035278 -0.035278 scale
 start_of
 3648 1891 moveto
 3648 0 lineto
 2624 0 lineto
 2624 308 lineto
 2624 1447 lineto
 2624 1849 2607 2001 conicto
 2590 2154 2547 2226 conicto
 2491 2324 2395 2378 conicto
 2299 2432 2176 2432 conicto
 1877 2432 1706 2192 conicto
 1536 1952 1536 1528 conicto
 1536 0 lineto
 512 0 lineto
 512 3136 lineto
 1536 3136 lineto
 1536 2688 lineto
 1758 2950 2008 3075 conicto
 2259 3200 2562 3200 conicto
 3095 3200 3371 2865 conicto
 3648 2530 3648 1891 conicto
 end_of grestore
 1.000000 1.000000 1.000000 srgb
 n -28.550000 27.500000 m -28.550000 32.500000 1 -2.200000 32.500000 1 -2.200000 27.500000 1 f
 0.000000 0.000000 0.000000 srgb
 n -28.550000 27.500000 m -28.550000 32.500000 1 -2.200000 32.500000 1 -2.200000 27.500000 1 cp s
 gsave -28.400000 28.200000 translate 0.035278 -0.035278 scale
 start_of
 832 1472 moveto

1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -28.035933 28.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.671867 28.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.307800 28.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -26.943733 28.200000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -26.579667 28.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave -26.215600 28.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -25.851533 28.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -25.487467 28.200000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2304 3328 lineto
2304 2944 lineto

1600 2944 lineto
1600 384 lineto
2304 384 lineto
2304 0 lineto
448 0 lineto
448 384 lineto
1152 384 lineto
1152 2944 lineto
448 2944 lineto
448 3328 lineto
end_ol grestore
gsave -25.123400 28.200000 translate 0.035278 -0.035278 scale
start_ol
990 384 moveto
1581 384 1814 660 conicto
2048 937 2048 1660 conicto
2048 2390 1815 2667 conicto
1583 2944 990 2944 conicto
768 2944 lineto
768 384 lineto
990 384 lineto
1000 3328 moveto
1768 3328 2132 2922 conicto
2496 2517 2496 1661 conicto
2496 809 2132 404 conicto
1768 0 1000 0 conicto
320 0 lineto
320 3328 lineto
1000 3328 lineto
end_ol grestore
gsave -28.400000 29.000000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -28.035933 29.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -27.671867 29.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore

gsave -27.307800 29.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore

gsave -26.943733 29.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore

gsave -26.579667 29.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto

1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -26.215600 29.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -25.851533 29.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -25.487467 29.000000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave -25.123400 29.000000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1459 1728 lineto
1797 1728 1986 1888 conicto
2176 2049 2176 2337 conicto
2176 2625 1988 2784 conicto
1800 2944 1459 2944 conicto
896 2944 lineto
448 3328 moveto
1459 3328 lineto
2033 3328 2328 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2329 1595 conicto
2035 1344 1459 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave -24.759333 29.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto

1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -24.395267 29.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto

2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -24.031200 29.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -23.667133 29.000000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto

2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave -23.303067 29.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore

gsave -22.939000 29.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.574933 29.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore

gsave -22.210867 29.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore

gsave -21.846800 29.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_ol grestore
gsave -28.400000 29.800000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -28.035933 29.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -27.671867 29.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.307800 29.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto

1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -26.943733 29.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -26.579667 29.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -26.215600 29.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -25.851533 29.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore

gsave -25.487467 29.800000 translate 0.035278 -0.035278 scale
start_ol
990 384 moveto
1581 384 1814 660 conicto
2048 937 2048 1660 conicto
2048 2390 1815 2667 conicto
1583 2944 990 2944 conicto
768 2944 lineto
768 384 lineto
990 384 lineto
1000 3328 moveto
1768 3328 2132 2922 conicto
2496 2517 2496 1661 conicto
2496 809 2132 404 conicto
1768 0 1000 0 conicto
320 0 lineto
320 3328 lineto
1000 3328 lineto
end_ol grestore
gsave -25.123400 29.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto

744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -24.759333 29.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -24.395267 29.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto

320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -28.400000 30.600000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -28.035933 30.600000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -27.671867 30.600000 translate 0.035278 -0.035278 scale

start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -27.307800 30.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -26.943733 30.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -26.579667 30.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -26.215600 30.600000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -25.851533 30.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -25.487467 30.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -25.123400 30.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore

gsave -24.759333 30.600000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -24.395267 30.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore

gsave -24.031200 30.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -23.667133 30.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.303067 30.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -22.939000 30.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto

1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -22.574933 30.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -22.210867 30.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto

1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -21.846800 30.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -21.482733 30.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -21.118667 30.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -20.754600 30.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -20.390533 30.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -20.026467 30.600000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto

1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -19.662400 30.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -19.298333 30.600000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto

1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave -28.400000 31.400000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -28.035933 31.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -27.671867 31.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto

1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -27.307800 31.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto

end_of grestore
gsave -26.943733 31.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -26.579667 31.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto

512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -26.215600 31.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -25.851533 31.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto

320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -25.487467 31.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -25.123400 31.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.759333 31.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto

1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -24.395267 31.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.031200 31.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -23.667133 31.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -23.303067 31.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -22.939000 31.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -22.574933 31.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto

1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -22.210867 31.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -21.846800 31.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
gsave -21.482733 31.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -21.118667 31.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -20.754600 31.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto

2624 1984 lineto
end_of grestore
gsave -20.390533 31.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -20.026467 31.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -19.662400 31.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -19.298333 31.400000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto

832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -18.934267 31.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -18.570200 31.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -18.206133 31.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -17.842067 31.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -17.478000 31.400000 translate 0.035278 -0.035278 scale
start_of
192 1152 moveto
2560 1152 lineto
2560 768 lineto
192 768 lineto
192 1152 lineto
192 2048 moveto
2560 2048 lineto
2560 1664 lineto
192 1664 lineto
192 2048 lineto

end_of grestore
gsave -17.113933 31.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -16.749867 31.400000 translate 0.035278 -0.035278 scale
start_of
832 1600 moveto
832 384 lineto
1370 384 lineto
1770 384 1941 520 conicto
2112 657 2112 971 conicto
2112 1296 1932 1448 conicto
1752 1600 1370 1600 conicto
832 1600 lineto
832 2944 moveto
832 1984 lineto
1361 1984 lineto
1690 1984 1837 2103 conicto
1984 2223 1984 2490 conicto
1984 2731 1839 2837 conicto
1694 2944 1361 2944 conicto
832 2944 lineto
384 3328 moveto
1370 3328 lineto
1880 3328 2156 3110 conicto
2432 2893 2432 2495 conicto
2432 2193 2287 2019 conicto
2143 1846 1854 1802 conicto
2185 1752 2372 1519 conicto
2560 1286 2560 925 conicto
2560 467 2261 233 conicto
1962 0 1370 0 conicto
384 0 lineto
384 3328 lineto
end_of grestore
gsave -16.385800 31.400000 translate 0.035278 -0.035278 scale
start_of
2304 3200 moveto
2304 2752 lineto
2096 2879 1887 2943 conicto
1679 3008 1466 3008 conicto
1143 3008 955 2859 conicto
768 2711 768 2459 conicto
768 2237 889 2120 conicto
1011 2004 1345 1926 conicto
1581 1871 lineto
2059 1763 2277 1531 conicto
2496 1299 2496 900 conicto

2496 430 2199 183 conicto
1903 -64 1337 -64 conicto
1100 -64 862 -16 conicto
624 32 384 128 conicto
384 576 lineto
640 444 868 382 conicto
1097 320 1329 320 conicto
1670 320 1859 467 conicto
2048 614 2048 878 conicto
2048 1118 1917 1244 conicto
1787 1370 1463 1439 conicto
1222 1496 lineto
748 1602 534 1817 conicto
320 2032 320 2394 conicto
320 2847 625 3119 conicto
931 3392 1438 3392 conicto
1633 3392 1849 3343 conicto
2066 3295 2304 3200 conicto
end_of grestore
gsave -16.021733 31.400000 translate 0.035278 -0.035278 scale
start_of
990 384 moveto
1581 384 1814 660 conicto
2048 937 2048 1660 conicto
2048 2390 1815 2667 conicto
1583 2944 990 2944 conicto
768 2944 lineto
768 384 lineto
990 384 lineto
1000 3328 moveto
1768 3328 2132 2922 conicto
2496 2517 2496 1661 conicto
2496 809 2132 404 conicto
1768 0 1000 0 conicto
320 0 lineto
320 3328 lineto
1000 3328 lineto
end_of grestore
gsave -15.657667 31.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -15.293600 31.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -14.929533 31.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -14.565467 31.400000 translate 0.035278 -0.035278 scale
start_of

2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -14.201400 31.400000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave -13.837333 31.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -13.473267 31.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -13.109200 31.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -28.400000 32.200000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -28.035933 32.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto

2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -27.671867 32.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -27.307800 32.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.943733 32.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto

2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -26.579667 32.200000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -26.215600 32.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto

796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -25.851533 32.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_of grestore
gsave -25.487467 32.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -25.123400 32.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -24.759333 32.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.395267 32.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -24.031200 32.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -23.667133 32.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -23.303067 32.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -22.939000 32.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -22.574933 32.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto

1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -22.210867 32.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -21.846800 32.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -21.482733 32.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto

2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -21.118667 32.200000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -28.550000 32.500000 m -28.550000 43.900000 1 -2.200000 43.900000 1 -2.200000 32.500000 1 f

0.000000 0.000000 0.000000 srgb
n -28.550000 32.500000 m -28.550000 43.900000 l -2.200000 43.900000 l -2.200000 32.500000 l cp s
gsave -28.400000 33.200000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -28.035933 33.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -27.671867 33.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.307800 33.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -26.943733 33.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto

1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -26.579667 33.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -26.215600 33.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto

2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -25.851533 33.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -25.487467 33.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -25.123400 33.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.759333 33.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -24.395267 33.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -24.031200 33.200000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -23.667133 33.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -23.303067 33.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -22.939000 33.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -22.574933 33.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto

1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -22.210867 33.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -21.846800 33.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -21.482733 33.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -21.118667 33.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -20.754600 33.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -20.390533 33.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto

879 2560 1407 2560 conicto
end_of grestore
gsave -20.026467 33.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -19.662400 33.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -19.298333 33.200000 translate 0.035278 -0.035278 scale

start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave -18.934267 33.200000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave -18.570200 33.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave -18.206133 33.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -17.842067 33.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -17.478000 33.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto

1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -17.113933 33.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -16.749867 33.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.385800 33.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto

end_of grestore
gsave -16.021733 33.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -15.657667 33.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -15.293600 33.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -14.929533 33.200000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -14.565467 33.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -14.201400 33.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -13.837333 33.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave -13.473267 33.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -13.109200 33.200000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave -12.745133 33.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -12.381067 33.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -12.017000 33.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -11.652933 33.200000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto

1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -11.288867 33.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -10.924800 33.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -10.560733 33.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -10.196667 33.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -9.832600 33.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -28.400000 34.000000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto

192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 34.000000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -27.671867 34.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto

end_ol grestore
gsave -27.307800 34.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -26.943733 34.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -26.579667 34.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto

2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -26.215600 34.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -25.851533 34.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave -25.487467 34.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -25.123400 34.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.759333 34.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto

1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -24.395267 34.000000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -24.031200 34.000000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -23.667133 34.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto

768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -23.303067 34.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -22.939000 34.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.574933 34.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.210867 34.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -21.846800 34.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto

2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -21.482733 34.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of_grestore
gsave -21.118667 34.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of_grestore
gsave -20.754600 34.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto

1088 704 lineto
end_of grestore
gsave -20.390533 34.000000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -20.026467 34.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -19.662400 34.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -19.298333 34.000000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -18.934267 34.000000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto

1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -18.570200 34.000000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave -18.206133 34.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -17.842067 34.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -17.478000 34.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -17.113933 34.000000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -16.749867 34.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto

2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -16.385800 34.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.021733 34.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto

1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -15.657667 34.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -15.293600 34.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -14.929533 34.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -14.565467 34.000000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto

2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -14.201400 34.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -13.837333 34.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto

end_of grestore
gsave -13.473267 34.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -13.109200 34.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -12.745133 34.000000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -12.381067 34.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -12.017000 34.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -11.652933 34.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -11.288867 34.000000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -10.924800 34.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto

1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -10.560733 34.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -10.196667 34.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -9.832600 34.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -9.468533 34.000000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -28.400000 34.800000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -28.035933 34.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -27.671867 34.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -27.307800 34.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -26.943733 34.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -26.579667 34.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -26.215600 34.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -25.851533 34.800000 translate 0.035278 -0.035278 scale

start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -25.487467 34.800000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto

512 0 lineto
512 3520 lineto
end_ol grestore
gsave -25.123400 34.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.759333 34.800000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -24.395267 34.800000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto

1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave -24.031200 34.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -23.667133 34.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -23.303067 34.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -22.939000 34.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -22.574933 34.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -28.400000 35.600000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto

192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 35.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.671867 35.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.307800 35.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore

gsave -26.943733 35.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -26.579667 35.600000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -26.215600 35.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -25.851533 35.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -25.487467 35.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -25.123400 35.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -24.759333 35.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.395267 35.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.031200 35.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -23.667133 35.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto

2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -23.303067 35.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -22.939000 35.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.574933 35.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto

1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -22.210867 35.600000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -21.846800 35.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -21.482733 35.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -21.118667 35.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -20.754600 35.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -20.390533 35.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.026467 35.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -19.662400 35.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -19.298333 35.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -18.934267 35.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -18.570200 35.600000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -18.206133 35.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -17.842067 35.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -17.478000 35.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -17.113933 35.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.749867 35.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto

2432 1771 2432 1449 conicto
end_ol grestore
gsave -16.385800 35.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -16.021733 35.600000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -15.657667 35.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -15.293600 35.600000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -14.929533 35.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -14.565467 35.600000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto

2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave -14.201400 35.600000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave -28.400000 36.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -28.035933 36.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.671867 36.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.307800 36.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.943733 36.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.579667 36.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.215600 36.200000 translate 0.035278 -0.035278 scale
start_ol

end_of grestore
gsave -25.851533 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -25.487467 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -25.123400 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.759333 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.395267 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.031200 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -23.667133 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -23.303067 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -22.939000 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -22.574933 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -22.210867 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -21.846800 36.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -21.482733 36.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -21.118667 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -20.754600 36.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -20.390533 36.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.026467 36.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -19.662400 36.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -19.298333 36.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -18.934267 36.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -18.570200 36.200000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -18.206133 36.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -17.842067 36.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -17.478000 36.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -17.113933 36.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.749867 36.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto

2432 1771 2432 1449 conicto
end_ol grestore
gsave -16.385800 36.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -16.021733 36.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -15.657667 36.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto

2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -15.293600 36.200000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -14.929533 36.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -14.565467 36.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -14.201400 36.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_ol grestore
gsave -13.837333 36.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -13.473267 36.200000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -13.109200 36.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -12.745133 36.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -12.381067 36.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -12.017000 36.200000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto

1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave -11.652933 36.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -11.288867 36.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -10.924800 36.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -10.560733 36.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -10.196667 36.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -28.400000 37.000000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto

192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 37.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.671867 37.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.307800 37.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore

gsave -26.943733 37.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -26.579667 37.000000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -26.215600 37.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -25.851533 37.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -25.487467 37.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -25.123400 37.000000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -24.759333 37.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.395267 37.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.031200 37.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -23.667133 37.000000 translate 0.035278 -0.035278 scale

start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -23.303067 37.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto

2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -22.939000 37.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.574933 37.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto

2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -22.210867 37.000000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -21.846800 37.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto

1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -21.482733 37.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -21.118667 37.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto

960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -20.754600 37.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.390533 37.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -20.026467 37.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -19.662400 37.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave -19.298333 37.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -18.934267 37.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -18.570200 37.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -18.206133 37.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -17.842067 37.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -17.478000 37.000000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -17.113933 37.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -16.749867 37.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.385800 37.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -16.021733 37.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -15.657667 37.000000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto

2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -15.293600 37.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -14.929533 37.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -14.565467 37.000000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -14.201400 37.000000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -13.837333 37.000000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto

1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave -28.400000 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -28.035933 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.671867 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.307800 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.943733 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.579667 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.215600 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -25.851533 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -25.487467 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -25.123400 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.759333 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.395267 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.031200 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.667133 37.600000 translate 0.035278 -0.035278 scale
start_ol

end_ol grestore
gsave -23.303067 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.939000 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.574933 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.210867 37.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.846800 37.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -21.482733 37.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -21.118667 37.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -20.754600 37.600000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -20.390533 37.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -20.026467 37.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -19.662400 37.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -19.298333 37.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -18.934267 37.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto

753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -18.570200 37.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore

gsave -18.206133 37.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -17.842067 37.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -17.478000 37.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -17.113933 37.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -16.749867 37.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -16.385800 37.600000 translate 0.035278 -0.035278 scale
start_ol

1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -16.021733 37.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -15.657667 37.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -15.293600 37.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -14.929533 37.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -14.565467 37.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -14.201400 37.600000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -13.837333 37.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -13.473267 37.600000 translate 0.035278 -0.035278 scale

start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -13.109200 37.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -12.745133 37.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto

1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -12.381067 37.600000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave -12.017000 37.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -11.652933 37.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -11.288867 37.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -10.924800 37.600000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto

384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -10.560733 37.600000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave -10.196667 37.600000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -9.832600 37.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -9.468533 37.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -9.104467 37.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -8.740400 37.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -28.400000 38.400000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -27.671867 38.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto

2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -27.307800 38.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto

2432 1771 2432 1449 conicto
end_of grestore
gsave -26.943733 38.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -26.579667 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -26.215600 38.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -25.851533 38.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto

879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -25.487467 38.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -25.123400 38.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.759333 38.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -24.395267 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -24.031200 38.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -23.667133 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -23.303067 38.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -22.939000 38.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto

832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -22.574933 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -22.210867 38.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto

2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -21.846800 38.400000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -21.482733 38.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore

gsave -21.118667 38.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.754600 38.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.390533 38.400000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto

end_of grestore
gsave -20.026467 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -19.662400 38.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -19.298333 38.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto

1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -18.934267 38.400000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -18.570200 38.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -18.206133 38.400000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -17.842067 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -17.478000 38.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -17.113933 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -16.749867 38.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -16.385800 38.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -16.021733 38.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -15.657667 38.400000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -15.293600 38.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -14.929533 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -14.565467 38.400000 translate 0.035278 -0.035278 scale

start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -14.201400 38.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -13.837333 38.400000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -13.473267 38.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -13.109200 38.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -12.745133 38.400000 translate 0.035278 -0.035278 scale
start_ol

832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -12.381067 38.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -12.017000 38.400000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -11.652933 38.400000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -11.288867 38.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -10.924800 38.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -10.560733 38.400000 translate 0.035278 -0.035278 scale
start_ol

256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -10.196667 38.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -9.832600 38.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto

end_of grestore
gsave -9.468533 38.400000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto

end_of grestore

gsave -28.400000 39.200000 translate 0.035278 -0.035278 scale

start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore

gsave -28.035933 39.200000 translate 0.035278 -0.035278 scale

start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto

1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -27.671867 39.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
gsave -27.307800 39.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -26.943733 39.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.579667 39.200000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto

1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -26.215600 39.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -25.851533 39.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -25.487467 39.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -25.123400 39.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -24.759333 39.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto

1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -24.395267 39.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -24.031200 39.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -23.667133 39.200000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto

2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -23.303067 39.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -22.939000 39.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -22.574933 39.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.210867 39.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -21.846800 39.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -21.482733 39.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -21.118667 39.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -20.754600 39.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -20.390533 39.200000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto

832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -20.026467 39.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -19.662400 39.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -19.298333 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -18.934267 39.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -18.570200 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto

1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -18.206133 39.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -17.842067 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -17.478000 39.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -17.113933 39.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -16.749867 39.200000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -16.385800 39.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -16.021733 39.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto

832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -15.657667 39.200000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -15.293600 39.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -14.929533 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -14.565467 39.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -14.201400 39.200000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -13.837333 39.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto

448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -13.473267 39.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave -13.109200 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -12.745133 39.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -12.381067 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto

1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -12.017000 39.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -11.652933 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -11.288867 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto

1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -10.924800 39.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -10.560733 39.200000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto

1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -10.196667 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -9.832600 39.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto

2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -9.468533 39.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -9.104467 39.200000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -8.740400 39.200000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -8.376333 39.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -8.012267 39.200000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto

1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -7.648200 39.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -7.284133 39.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -6.920067 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -6.556000 39.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave -6.191933 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -5.827867 39.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -5.463800 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -5.099733 39.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -4.735667 39.200000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto

1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -4.371600 39.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -4.007533 39.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.643467 39.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -3.279400 39.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto

320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -2.915333 39.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -2.551267 39.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore

gsave -28.400000 40.000000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -28.035933 40.000000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto

2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -27.671867 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -27.307800 40.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -26.943733 40.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.579667 40.000000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -26.215600 40.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -25.851533 40.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -25.487467 40.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -25.123400 40.000000 translate 0.035278 -0.035278 scale

start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -24.759333 40.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -24.395267 40.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -24.031200 40.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -23.667133 40.000000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -23.303067 40.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto

2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -22.939000 40.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -22.574933 40.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave -22.210867 40.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -21.846800 40.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -21.482733 40.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto

1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -21.118667 40.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -20.754600 40.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave -20.390533 40.000000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -20.026467 40.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -19.662400 40.000000 translate 0.035278 -0.035278 scale
start_ol

1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -19.298333 40.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -18.934267 40.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -18.570200 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto

1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -18.206133 40.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -17.842067 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -17.478000 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -17.113933 40.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave -16.749867 40.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -16.385800 40.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -16.021733 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -15.657667 40.000000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -15.293600 40.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -14.929533 40.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -14.565467 40.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -14.201400 40.000000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -13.837333 40.000000 translate 0.035278 -0.035278 scale
start_ol

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -13.473267 40.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -13.109200 40.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto

1408 889 lineto
end_of grestore
gsave -12.745133 40.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -12.381067 40.000000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -12.017000 40.000000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto

1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -11.652933 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -11.288867 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -10.924800 40.000000 translate 0.035278 -0.035278 scale
start_ol

1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -10.560733 40.000000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -10.196667 40.000000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -9.832600 40.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -9.468533 40.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto

2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -9.104467 40.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -8.740400 40.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -8.376333 40.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -8.012267 40.000000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -7.648200 40.000000 translate 0.035278 -0.035278 scale
start_ol

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -7.284133 40.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -6.920067 40.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto

1408 889 lineto
end_of grestore
gsave -6.556000 40.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -6.191933 40.000000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -5.827867 40.000000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto

1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -5.463800 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -5.099733 40.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -4.735667 40.000000 translate 0.035278 -0.035278 scale
start_ol

832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -4.371600 40.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -4.007533 40.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.643467 40.000000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -3.279400 40.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto

2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -2.915333 40.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -2.551267 40.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto

704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -28.400000 40.800000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 40.800000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto

1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -27.671867 40.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -27.307800 40.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto

1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -26.943733 40.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.579667 40.800000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -26.215600 40.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of gstore
gsave -25.851533 40.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of gstore
gsave -25.487467 40.800000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto

1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -25.123400 40.800000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -24.759333 40.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -24.395267 40.800000 translate 0.035278 -0.035278 scale
start_ol

2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -24.031200 40.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -23.667133 40.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -23.303067 40.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -22.939000 40.800000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto

2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -22.574933 40.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.210867 40.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto

1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -21.846800 40.800000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -21.482733 40.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -21.118667 40.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -20.754600 40.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -20.390533 40.800000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -20.026467 40.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -19.662400 40.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -19.298333 40.800000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -18.934267 40.800000 translate 0.035278 -0.035278 scale

start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -18.570200 40.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -18.206133 40.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave -17.842067 40.800000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -17.478000 40.800000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto

2432 2792 lineto
end_of grestore
gsave -17.113933 40.800000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave -16.749867 40.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -16.385800 40.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -16.021733 40.800000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -15.657667 40.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto

768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -15.293600 40.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -14.929533 40.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto

826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -28.400000 41.600000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 41.600000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto

1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -27.671867 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -27.307800 41.600000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto

2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -26.943733 41.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.579667 41.600000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -26.215600 41.600000 translate 0.035278 -0.035278 scale
start_ol

2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -25.851533 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -25.487467 41.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto

824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -25.123400 41.600000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -24.759333 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto

2304 -768 lineto
end_of grestore
gsave -24.395267 41.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -24.031200 41.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -23.667133 41.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -23.303067 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -22.939000 41.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -22.574933 41.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave -22.210867 41.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto

end_ol grestore
gsave -21.846800 41.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto

end_ol grestore
gsave -21.482733 41.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -21.118667 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -20.754600 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -20.390533 41.600000 translate 0.035278 -0.035278 scale

start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -20.026467 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -19.662400 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -19.298333 41.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -18.934267 41.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -18.570200 41.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -18.206133 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -17.842067 41.600000 translate 0.035278 -0.035278 scale

start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -17.478000 41.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -17.113933 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -16.749867 41.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -16.385800 41.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -16.021733 41.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -15.657667 41.600000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -15.293600 41.600000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -14.929533 41.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -14.565467 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -14.201400 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto

1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -13.837333 41.600000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -13.473267 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -13.109200 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -12.745133 41.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -12.381067 41.600000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto

1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of_grestore
gsave -12.017000 41.600000 translate 0.035278 -0.035278 scale
start_of_grestore
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of_grestore
gsave -11.652933 41.600000 translate 0.035278 -0.035278 scale
start_of_grestore

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -11.288867 41.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -10.924800 41.600000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto

1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -10.560733 41.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -10.196667 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave -9.832600 41.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -9.468533 41.600000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto

448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -9.104467 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -8.740400 41.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -8.376333 41.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -8.012267 41.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -7.648200 41.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto

832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -7.284133 41.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -6.920067 41.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -6.556000 41.600000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto

1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -6.191933 41.600000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -5.827867 41.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -5.463800 41.600000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -5.099733 41.600000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave -4.735667 41.600000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto

1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -4.371600 41.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -4.007533 41.600000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -3.643467 41.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -3.279400 41.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto

1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -2.915333 41.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -28.400000 42.400000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto

1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 42.400000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -27.671867 42.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -27.307800 42.400000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -26.943733 42.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.579667 42.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -26.215600 42.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -25.851533 42.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -25.487467 42.400000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -25.123400 42.400000 translate 0.035278 -0.035278 scale
start_of
2176 1248 moveto

2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -24.759333 42.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -24.395267 42.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto

512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -24.031200 42.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -23.667133 42.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -23.303067 42.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -22.939000 42.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -22.574933 42.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -22.210867 42.400000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto

1471 2414 1534 2267 conicto
end_of grestore
gsave -21.846800 42.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -21.482733 42.400000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -21.118667 42.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.754600 42.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -20.390533 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -20.026467 42.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto

832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -19.662400 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -19.298333 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -18.934267 42.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -18.570200 42.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto

end_of grestore
gsave -18.206133 42.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto

end_of grestore
gsave -17.842067 42.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave -17.478000 42.400000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto

1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -17.113933 42.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -16.749867 42.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -16.385800 42.400000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -16.021733 42.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -15.657667 42.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -15.293600 42.400000 translate 0.035278 -0.035278 scale
start_ol

1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -14.929533 42.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto

879 2560 1407 2560 conicto
end_ol grestore
gsave -14.565467 42.400000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -14.201400 42.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -13.837333 42.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -13.473267 42.400000 translate 0.035278 -0.035278 scale

start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -13.109200 42.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -12.745133 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -12.381067 42.400000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -12.017000 42.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore

gsave -11.652933 42.400000 translate 0.035278 -0.035278 scale

start_ol

2048 1282 moveto

2048 1752 1880 1996 conicto

1713 2240 1393 2240 conicto

1057 2240 880 1996 conicto

704 1752 704 1282 conicto

704 813 881 566 conicto

1059 320 1397 320 conicto

1713 320 1880 567 conicto

2048 815 2048 1282 conicto

2432 167 moveto

2432 -388 2144 -674 conicto

1856 -960 1297 -960 conicto

1114 -960 913 -927 conicto

713 -895 512 -832 conicto

512 -448 lineto

759 -546 960 -593 conicto

1162 -640 1330 -640 conicto

1706 -640 1877 -460 conicto

2048 -280 2048 111 conicto

2048 128 lineto

2048 396 lineto

1941 196 1755 98 conicto

1570 0 1304 0 conicto

826 0 541 348 conicto

256 696 256 1279 conicto

256 1864 541 2212 conicto

826 2560 1304 2560 conicto

1567 2560 1750 2470 conicto

1933 2381 2048 2195 conicto

2048 2496 lineto

2432 2496 lineto

2432 167 lineto

end_ol grestore

gsave -11.288867 42.400000 translate 0.035278 -0.035278 scale

start_ol

2368 1575 moveto

2368 0 lineto

1984 0 lineto

1984 1575 lineto

1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto

832 1824 832 1436 conicto

832 0 lineto

448 0 lineto

448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -10.924800 42.400000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -10.560733 42.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave -10.196667 42.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -9.832600 42.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave -9.468533 42.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -9.104467 42.400000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -8.740400 42.400000 translate 0.035278 -0.035278 scale
start_of
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto

1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -8.376333 42.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -8.012267 42.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -7.648200 42.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -7.284133 42.400000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore

gsave -6.920067 42.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -6.556000 42.400000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -6.191933 42.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -5.827867 42.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -5.463800 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -5.099733 42.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto

1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -4.735667 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -4.371600 42.400000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto

896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -4.007533 42.400000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave -3.643467 42.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -3.279400 42.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -2.915333 42.400000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -2.551267 42.400000 translate 0.035278 -0.035278 scale

start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -2.187200 42.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -1.823133 42.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto

1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -28.400000 43.200000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -28.035933 43.200000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto

713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -27.671867 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -27.307800 43.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto

1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -26.943733 43.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.579667 43.200000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto

1408 889 lineto
end_of grestore
gsave -26.215600 43.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -25.851533 43.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -25.487467 43.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto

2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -25.123400 43.200000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -24.759333 43.200000 translate 0.035278 -0.035278 scale
start_ol

2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -24.395267 43.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -24.031200 43.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -23.667133 43.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -23.303067 43.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -22.939000 43.200000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -22.574933 43.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -22.210867 43.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -21.846800 43.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -21.482733 43.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -21.118667 43.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.754600 43.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -20.390533 43.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.026467 43.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -19.662400 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto

2368 3520 lineto
end_of grestore
gsave -19.298333 43.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -18.934267 43.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -18.570200 43.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto

448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -18.206133 43.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -17.842067 43.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto

1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -17.478000 43.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -17.113933 43.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave -16.749867 43.200000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -16.385800 43.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -16.021733 43.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -15.657667 43.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -15.293600 43.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -14.929533 43.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -14.565467 43.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -14.201400 43.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -13.837333 43.200000 translate 0.035278 -0.035278 scale
start_of

2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -13.473267 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -13.109200 43.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore

gsave -12.745133 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -12.381067 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -12.017000 43.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto

1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -11.652933 43.200000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -11.288867 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -10.924800 43.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -10.560733 43.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -10.196667 43.200000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -9.832600 43.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -9.468533 43.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -9.104467 43.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -8.740400 43.200000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto

832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave -8.376333 43.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -8.012267 43.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -7.648200 43.200000 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -7.284133 43.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -6.920067 43.200000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -6.556000 43.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -6.191933 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -5.827867 43.200000 translate 0.035278 -0.035278 scale
start_ol

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -5.463800 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -5.099733 43.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto

2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -4.735667 43.200000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -4.371600 43.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -4.007533 43.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.643467 43.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto

2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -3.279400 43.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -2.915333 43.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -2.551267 43.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 5.600000 -9.400000 m 5.600000 -8.000000 l 11.000000 -8.000000 l 11.000000 -9.400000 l f
0.000000 0.000000 0.000000 srgb
n 5.600000 -9.400000 m 5.600000 -8.000000 l 11.000000 -8.000000 l 11.000000 -9.400000 l cp s
gsave 5.912400 -8.400000 translate 0.035278 -0.035278 scale
start_ol
3328 3072 moveto
3169 2240 lineto
2967 2365 2771 2430 conicto
2576 2496 2389 2496 conicto
1901 2496 1590 2167 conicto
1280 1839 1280 1328 conicto
1280 1001 1472 820 conicto
1665 640 2018 640 conicto
2252 640 2478 704 conicto
2705 769 2909 896 conicto
2755 64 lineto
2504 0 2250 -32 conicto
1997 -64 1740 -64 conicto
995 -64 593 265 conicto
192 594 192 1199 conicto
192 1579 339 1937 conicto
487 2295 764 2581 conicto

1070 2895 1467 3047 conicto
1864 3200 2382 3200 conicto
2621 3200 2857 3168 conicto
3094 3136 3328 3072 conicto
end_of grestore
gsave 6.361133 -8.400000 translate 0.035278 -0.035278 scale
start_of
2962 2240 moveto
2860 2302 2735 2335 conicto
2611 2368 2468 2368 conicto
2090 2368 1840 2123 conicto
1591 1879 1503 1418 conicto
1221 0 lineto
192 0 lineto
832 3136 lineto
1826 3136 lineto
1718 2573 lineto
1914 2876 2208 3038 conicto
2502 3200 2860 3200 conicto
2912 3200 2978 3195 conicto
3045 3191 3136 3181 conicto
2962 2240 lineto
end_of grestore
gsave 6.733667 -8.400000 translate 0.035278 -0.035278 scale
start_of
3582 1445 moveto
3547 1280 lineto
1222 1280 lineto
1222 1263 1219 1231 conicto
1216 1199 1216 1182 conicto
1216 878 1397 727 conicto
1579 576 1940 576 conicto
2253 576 2600 672 conicto
2947 769 3328 960 conicto
3169 192 lineto
2805 63 2445 0 conicto
2085 -64 1713 -64 conicto
985 -64 588 272 conicto
192 608 192 1222 conicto
192 1577 319 1911 conicto
446 2245 690 2523 conicto
977 2856 1378 3028 conicto
1779 3200 2268 3200 conicto
2902 3200 3275 2862 conicto
3648 2524 3648 1953 conicto
3648 1841 3632 1717 conicto
3616 1593 3582 1445 conicto
2608 1920 moveto

2616 1957 2620 1995 conicto
2624 2033 2624 2069 conicto
2624 2295 2494 2427 conicto
2364 2560 2142 2560 conicto
1858 2560 1659 2397 conicto
1460 2235 1355 1920 conicto
2608 1920 lineto
end_ol grestore
gsave 7.250133 -8.400000 translate 0.035278 -0.035278 scale
start_ol
1746 640 moveto
2142 640 2390 999 conicto
2639 1358 2639 1939 conicto
2639 2201 2500 2348 conicto
2361 2496 2111 2496 conicto
1721 2496 1468 2141 conicto
1216 1786 1216 1232 conicto
1216 943 1352 791 conicto
1488 640 1746 640 conicto
2828 2683 moveto
3162 4352 lineto
4160 4352 lineto
3328 0 lineto
2291 0 lineto
2386 449 lineto
2155 186 1901 61 conicto
1647 -64 1345 -64 conicto
813 -64 502 269 conicto
192 602 192 1177 conicto
192 1534 301 1873 conicto
410 2212 613 2490 conicto
871 2839 1195 3019 conicto
1519 3200 1890 3200 conicto
2215 3200 2442 3074 conicto
2670 2948 2828 2683 conicto
end_ol grestore
gsave 7.792000 -8.400000 translate 0.035278 -0.035278 scale
start_ol
3582 1445 moveto
3547 1280 lineto
1222 1280 lineto
1222 1263 1219 1231 conicto
1216 1199 1216 1182 conicto
1216 878 1397 727 conicto
1579 576 1940 576 conicto
2253 576 2600 672 conicto
2947 769 3328 960 conicto
3169 192 lineto

2805 63 2445 0 conicto
2085 -64 1713 -64 conicto
985 -64 588 272 conicto
192 608 192 1222 conicto
192 1577 319 1911 conicto
446 2245 690 2523 conicto
977 2856 1378 3028 conicto
1779 3200 2268 3200 conicto
2902 3200 3275 2862 conicto
3648 2524 3648 1953 conicto
3648 1841 3632 1717 conicto
3616 1593 3582 1445 conicto
2608 1920 moveto
2616 1957 2620 1995 conicto
2624 2033 2624 2069 conicto
2624 2295 2494 2427 conicto
2364 2560 2142 2560 conicto
1858 2560 1659 2397 conicto
1460 2235 1355 1920 conicto
2608 1920 lineto
end_of grestore
gsave 8.308467 -8.400000 translate 0.035278 -0.035278 scale
start_of
3722 1891 moveto
3328 0 lineto
2341 0 lineto
2651 1620 lineto
2684 1778 2702 1887 conicto
2720 1996 2720 2060 conicto
2720 2238 2622 2335 conicto
2524 2432 2345 2432 conicto
2040 2432 1821 2192 conicto
1603 1952 1518 1528 conicto
1220 0 lineto
192 0 lineto
832 3136 lineto
1823 3136 lineto
1732 2661 lineto
2008 2935 2288 3067 conicto
2568 3200 2873 3200 conicto
3306 3200 3541 2972 conicto
3776 2744 3776 2330 conicto
3776 2240 3763 2130 conicto
3750 2021 3722 1891 conicto
end_of grestore
gsave 8.850333 -8.400000 translate 0.035278 -0.035278 scale
start_of
2071 4032 moveto

1899 3136 lineto
2929 3136 lineto
2785 2432 lineto
1756 2432 lineto
1497 1085 lineto
1486 1040 1481 1008 conicto
1477 977 1477 949 conicto
1477 818 1563 761 conicto
1649 704 1851 704 conicto
2372 704 lineto
2228 0 lineto
1382 0 lineto
926 0 687 189 conicto
448 379 448 735 conicto
448 812 456 901 conicto
465 990 482 1082 conicto
741 2432 lineto
247 2432 lineto
383 3136 lineto
884 3136 lineto
1058 4032 lineto
2071 4032 lineto
end_ol grestore
gsave 9.214400 -8.400000 translate 0.035278 -0.035278 scale
start_ol
832 3136 moveto
1800 3136 lineto
1184 0 lineto
192 0 lineto
832 3136 lineto
1024 4352 moveto
2036 4352 lineto
1876 3520 lineto
832 3520 lineto
1024 4352 lineto
end_ol grestore
gsave 9.476867 -8.400000 translate 0.035278 -0.035278 scale
start_ol
1910 1472 moveto
1535 1472 1343 1345 conicto
1152 1219 1152 973 conicto
1152 789 1265 682 conicto
1378 576 1577 576 conicto
1884 576 2091 778 conicto
2298 980 2367 1347 conicto
2389 1472 lineto
1910 1472 lineto
3470 1836 moveto

3121 0 lineto
2121 0 lineto
2205 457 lineto
1959 190 1686 63 conicto
1413 -64 1093 -64 conicto
649 -64 388 170 conicto
128 404 128 799 conicto
128 1405 589 1726 conicto
1050 2048 1920 2048 conicto
2509 2048 lineto
2521 2119 lineto
2529 2157 2530 2173 conicto
2532 2189 2532 2203 conicto
2532 2380 2360 2470 conicto
2188 2560 1849 2560 conicto
1544 2560 1257 2496 conicto
971 2432 704 2304 conicto
846 3072 lineto
1157 3134 1483 3167 conicto
1809 3200 2159 3200 conicto
2849 3200 3184 2970 conicto
3520 2741 3520 2271 conicto
3520 2180 3507 2071 conicto
3495 1962 3470 1836 conicto
end_ol grestore
gsave 9.993333 -8.400000 translate 0.035278 -0.035278 scale
start_ol
1024 4352 moveto
2036 4352 lineto
1184 0 lineto
192 0 lineto
1024 4352 lineto
end_ol grestore
gsave 10.255800 -8.400000 translate 0.035278 -0.035278 scale
start_ol
3258 3072 moveto
3109 2304 lineto
2814 2429 2521 2494 conicto
2229 2560 1966 2560 conicto
1668 2560 1506 2485 conicto
1344 2411 1344 2273 conicto
1344 2193 1435 2144 conicto
1527 2096 1797 2042 conicto
1984 2007 lineto
2588 1877 2830 1672 conicto
3072 1468 3072 1104 conicto
3072 554 2647 245 conicto
2223 -64 1451 -64 conicto

1128 -64 790 -16 conicto
 453 32 101 128 conicto
 253 896 lineto
 526 737 837 656 conicto
 1148 576 1474 576 conicto
 1792 576 1952 653 conicto
 2112 730 2112 877 conicto
 2112 979 2020 1036 conicto
 1928 1093 1642 1153 conicto
 1456 1188 lineto
 912 1299 680 1516 conicto
 448 1733 448 2117 conicto
 448 2638 847 2919 conicto
 1246 3200 1987 3200 conicto
 2311 3200 2625 3168 conicto
 2939 3136 3258 3072 conicto
 end_of grestore
 1.000000 1.000000 1.000000 srgb
 n 5.600000 -8.000000 m 5.600000 -7.600000 1 11.000000 -7.600000 1 11.000000 -8.000000 1 f
 0.000000 0.000000 0.000000 srgb
 n 5.600000 -8.000000 m 5.600000 -7.600000 1 11.000000 -7.600000 1 11.000000 -8.000000 1 cp s
 1.000000 1.000000 1.000000 srgb
 n 5.600000 -7.600000 m 5.600000 -7.200000 1 11.000000 -7.200000 1 11.000000 -7.600000 1 f
 0.000000 0.000000 0.000000 srgb
 n 5.600000 -7.600000 m 5.600000 -7.200000 1 11.000000 -7.200000 1 11.000000 -7.600000 1 cp s
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 28.200000 7.450000 m 28.200000 8.850000 1 59.250000 8.850000 1 59.250000 7.450000 1 f
 0.000000 0.000000 0.000000 srgb
 n 28.200000 7.450000 m 28.200000 8.850000 1 59.250000 8.850000 1 59.250000 7.450000 1 cp s
 gsave 38.839733 8.450000 translate 0.035278 -0.035278 scale
 start_of
 1536 448 moveto
 1536 -1216 lineto
 512 -1216 lineto
 512 3136 lineto
 1536 3136 lineto
 1536 2688 lineto
 1744 2950 1996 3075 conicto
 2248 3200 2577 3200 conicto
 3158 3200 3531 2743 conicto
 3904 2287 3904 1568 conicto
 3904 850 3531 393 conicto
 3158 -64 2577 -64 conicto
 2248 -64 1996 60 conicto
 1744 185 1536 448 conicto
 2211 2496 moveto

1885 2496 1710 2256 conicto
1536 2017 1536 1567 conicto
1536 1118 1710 879 conicto
1885 640 2211 640 conicto
2536 640 2708 877 conicto
2880 1115 2880 1567 conicto
2880 2020 2708 2258 conicto
2536 2496 2211 2496 conicto
end_of grestore
gsave 39.381600 8.450000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 39.838800 8.450000 translate 0.035278 -0.035278 scale
start_of
512 4352 moveto
1536 4352 lineto
1536 1985 lineto
2682 3136 lineto
3840 3136 lineto

2318 1696 lineto
3968 0 lineto
2756 0 lineto
1536 1307 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 40.346800 8.450000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 40.727800 8.450000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore

gsave 41.185000 8.450000 translate 0.035278 -0.035278 scale

start_ol

3648 1575 moveto

3648 1280 lineto

1280 1280 lineto

1318 928 1540 752 conicto

1763 576 2163 576 conicto

2486 576 2824 671 conicto

3163 766 3520 960 conicto

3520 192 lineto

3159 65 2798 0 conicto

2438 -64 2076 -64 conicto

1213 -64 734 365 conicto

256 794 256 1568 conicto

256 2329 722 2764 conicto

1189 3200 2008 3200 conicto

2754 3200 3201 2758 conicto

3648 2316 3648 1575 conicto

2624 1920 moveto

2624 2207 2453 2383 conicto

2283 2560 2007 2560 conicto

1710 2560 1523 2395 conicto

1337 2230 1291 1920 conicto

2624 1920 lineto

end_ol grestore

gsave 41.701467 8.450000 translate 0.035278 -0.035278 scale

start_ol

2880 2240 moveto

2747 2306 2615 2337 conicto

2483 2368 2350 2368 conicto

1958 2368 1747 2122 conicto

1536 1876 1536 1418 conicto

1536 0 lineto

512 0 lineto

512 3136 lineto

1536 3136 lineto

1536 2624 lineto

1732 2924 1985 3062 conicto

2239 3200 2594 3200 conicto

2644 3200 2703 3196 conicto

2763 3193 2877 3181 conicto

2880 2240 lineto

end_ol grestore

gsave 42.074000 8.450000 translate 0.035278 -0.035278 scale

start_ol

64 3136 moveto

1071 3136 lineto

1857 969 lineto

2639 3136 lineto
3648 3136 lineto
2408 0 lineto
1302 0 lineto
64 3136 lineto
end_of grestore
gsave 42.573533 8.450000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 43.090000 8.450000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto

end_of grestore
gsave 43.462533 8.450000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave 43.843533 8.450000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave 44.292267 8.450000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto

end_of grestore
gsave 44.664800 8.450000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 45.181267 8.450000 translate 0.035278 -0.035278 scale
start_of
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto
1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto
256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto
2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto
2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto

1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_ol grestore
gsave 45.723133 8.450000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 46.239600 8.450000 translate 0.035278 -0.035278 scale
start_ol
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto

2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 46.781467 8.450000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave 47.145533 8.450000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave 47.408000 8.450000 translate 0.035278 -0.035278 scale
start_ol
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto

2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_ol grestore
gsave 47.924467 8.450000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 48.186933 8.450000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto

737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 28.200000 8.850000 m 28.200000 10.650000 1 59.250000 10.650000 1 59.250000 8.850000 1 f
0.000000 0.000000 0.000000 srgb
n 28.200000 8.850000 m 28.200000 10.650000 1 59.250000 10.650000 1 59.250000 8.850000 1 cp s
gsave 28.350000 9.550000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 28.714067 9.550000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 29.078133 9.550000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.442200 9.550000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 29.806267 9.550000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave 30.170333 9.550000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 30.534400 9.550000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 30.898467 9.550000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto

2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 31.262533 9.550000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 31.626600 9.550000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto

end_of grestore
gsave 31.990667 9.550000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 32.354733 9.550000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 32.718800 9.550000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 33.082867 9.550000 translate 0.035278 -0.035278 scale
start_of

1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 33.446933 9.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 33.811000 9.550000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 28.350000 10.350000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 28.714067 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 29.078133 10.350000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 29.442200 10.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.806267 10.350000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 30.170333 10.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 30.534400 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 30.898467 10.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 31.262533 10.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 31.626600 10.350000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 31.990667 10.350000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 32.354733 10.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 32.718800 10.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 33.082867 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 33.446933 10.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto

1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 33.811000 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 34.175067 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto

1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 34.539133 10.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 34.903200 10.350000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 35.267267 10.350000 translate 0.035278 -0.035278 scale
start_ol

1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 35.631333 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 35.995400 10.350000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto

1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 36.359467 10.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 36.723533 10.350000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 37.087600 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 37.451667 10.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 37.815733 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 38.179800 10.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 38.543867 10.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 38.907933 10.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 39.272000 10.350000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 39.636067 10.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 40.000133 10.350000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 40.364200 10.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto

2304 -768 lineto
end_of grestore
gsave 40.728267 10.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 41.092333 10.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 41.456400 10.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 41.820467 10.350000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 42.184533 10.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 42.548600 10.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 42.912667 10.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 43.276733 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto

2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 43.640800 10.350000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 44.004867 10.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 44.368933 10.350000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 44.733000 10.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 45.097067 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 45.461133 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 45.825200 10.350000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 46.189267 10.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto

1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 46.553333 10.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 46.917400 10.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 47.281467 10.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 47.645533 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto

2368 3520 lineto
end_of grestore
gsave 48.009600 10.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 48.373667 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 48.737733 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto

448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 49.101800 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 49.465867 10.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto

1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 49.829933 10.350000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 50.194000 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 28.200000 10.650000 m 28.200000 12.450000 1 59.250000 12.450000 1 59.250000 10.650000 1 f
0.000000 0.000000 0.000000 srgb
n 28.200000 10.650000 m 28.200000 12.450000 1 59.250000 12.450000 1 59.250000 10.650000 1 cp s
gsave 28.350000 11.350000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave 28.714067 11.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 29.078133 11.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.442200 11.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 29.806267 11.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 30.170333 11.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 30.534400 11.350000 translate 0.035278 -0.035278 scale
start_of

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 30.898467 11.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 31.262533 11.350000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto

2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 31.626600 11.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 31.990667 11.350000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto

end_of grestore
gsave 32.354733 11.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 32.718800 11.350000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 33.082867 11.350000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto

end_of grestore
gsave 33.446933 11.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 33.811000 11.350000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto

2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 34.175067 11.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 34.539133 11.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 34.903200 11.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 35.267267 11.350000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 35.631333 11.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto

1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 35.995400 11.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore

gsave 36.359467 11.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 36.723533 11.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 37.087600 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto

2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 37.451667 11.350000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 37.815733 11.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto

end_of grestore
gsave 38.179800 11.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 38.543867 11.350000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 38.907933 11.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 39.272000 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 39.636067 11.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 40.000133 11.350000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto

2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 40.364200 11.350000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto

end_of grestore
gsave 40.728267 11.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 41.092333 11.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 41.456400 11.350000 translate 0.035278 -0.035278 scale
start_ol
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_ol grestore
gsave 41.820467 11.350000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto

1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 42.184533 11.350000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 42.548600 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 42.912667 11.350000 translate 0.035278 -0.035278 scale

start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 43.276733 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 43.640800 11.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 44.004867 11.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 44.368933 11.350000 translate 0.035278 -0.035278 scale
start_ol

end_ol grestore
gsave 44.733000 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 45.097067 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 45.461133 11.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto

704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 45.825200 11.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto

end_of grestore
gsave 46.189267 11.350000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 46.553333 11.350000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 46.917400 11.350000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto

1088 704 lineto
end_ol grestore
gsave 47.281467 11.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 47.645533 11.350000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 48.009600 11.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 48.373667 11.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 28.350000 12.150000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave 28.714067 12.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto

1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 29.078133 12.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.442200 12.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 29.806267 12.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 30.170333 12.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 30.534400 12.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 30.898467 12.150000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto

1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 31.262533 12.150000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 31.626600 12.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 31.990667 12.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto

1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 32.354733 12.150000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 32.718800 12.150000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 33.082867 12.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto

1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 33.446933 12.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 33.811000 12.150000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto

1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 34.175067 12.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 34.539133 12.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 34.903200 12.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 35.267267 12.150000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto

576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 35.631333 12.150000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 35.995400 12.150000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto

1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 36.359467 12.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 36.723533 12.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 37.087600 12.150000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 37.451667 12.150000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 37.815733 12.150000 translate 0.035278 -0.035278 scale
start_of

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 38.179800 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 38.543867 12.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 38.907933 12.150000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 39.272000 12.150000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto

1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 39.636067 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 40.000133 12.150000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 40.364200 12.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 40.728267 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 41.092333 12.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 41.456400 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto

384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 41.820467 12.150000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 42.184533 12.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore

gsave 42.548600 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto

end_ol grestore
gsave 42.912667 12.150000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto

end_ol grestore
gsave 43.276733 12.150000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto

1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 43.640800 12.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 44.004867 12.150000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto

832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 44.368933 12.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 44.733000 12.150000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto

192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 45.097067 12.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 45.461133 12.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 45.825200 12.150000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto

448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 46.189267 12.150000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 46.553333 12.150000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 46.917400 12.150000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 47.281467 12.150000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 47.645533 12.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 48.009600 12.150000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto

832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 48.373667 12.150000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 48.737733 12.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 49.101800 12.150000 translate 0.035278 -0.035278 scale

start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 49.465867 12.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 49.829933 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 50.194000 12.150000 translate 0.035278 -0.035278 scale

start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 50.558067 12.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 50.922133 12.150000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 51.286200 12.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 51.650267 12.150000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 52.014333 12.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 52.378400 12.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 52.742467 12.150000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore

gsave 53.106533 12.150000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 53.470600 12.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore

gsave 53.834667 12.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 54.198733 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 54.562800 12.150000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto

448 425 448 921 conicto
end_ol grestore
gsave 54.926867 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 55.290933 12.150000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 55.655000 12.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 56.019067 12.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 56.383133 12.150000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto

1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 56.747200 12.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 57.111267 12.150000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto

1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 57.475333 12.150000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 57.839400 12.150000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 58.203467 12.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 58.567533 12.150000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 58.931600 12.150000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto

1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 59.295667 12.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 59.659733 12.150000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto

256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 43.725000 7.450000 m 8.300000 -7.200000 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 21.516700 -0.490000 m 21.516700 0.910000 l 52.566700 0.910000 l 52.566700 -0.490000 l f
0.000000 0.000000 0.000000 srgb
n 21.516700 -0.490000 m 21.516700 0.910000 l 52.566700 0.910000 l 52.566700 -0.490000 l cp s
gsave 32.325767 0.510000 translate 0.035278 -0.035278 scale
start_ol
1536 448 moveto
1536 -1216 lineto
512 -1216 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1744 2950 1996 3075 conicto
2248 3200 2577 3200 conicto
3158 3200 3531 2743 conicto
3904 2287 3904 1568 conicto
3904 850 3531 393 conicto
3158 -64 2577 -64 conicto
2248 -64 1996 60 conicto
1744 185 1536 448 conicto
2211 2496 moveto
1885 2496 1710 2256 conicto
1536 2017 1536 1567 conicto
1536 1118 1710 879 conicto
1885 640 2211 640 conicto
2536 640 2708 877 conicto

2880 1115 2880 1567 conicto
2880 2020 2708 2258 conicto
2536 2496 2211 2496 conicto
end_ol grestore
gsave 32.867633 0.510000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 33.324833 0.510000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 1985 lineto
2682 3136 lineto
3840 3136 lineto
2318 1696 lineto
3968 0 lineto
2756 0 lineto
1536 1307 lineto
1536 0 lineto

512 0 lineto
512 4352 lineto
end_ol grestore
gsave 33.832833 0.510000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 34.213833 0.510000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_ol grestore
gsave 34.662567 0.510000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 34.925033 0.510000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto

512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_of grestore
gsave 35.187500 0.510000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 35.703967 0.510000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto

1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 36.245833 0.510000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave 36.609900 0.510000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 36.990900 0.510000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto

3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave 37.439633 0.510000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_of grestore
gsave 37.812167 0.510000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto

2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 38.328633 0.510000 translate 0.035278 -0.035278 scale
start_ol
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto
1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto
256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto
2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto
2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto
1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_ol grestore
gsave 38.870500 0.510000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto

3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 39.386967 0.510000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave 39.928833 0.510000 translate 0.035278 -0.035278 scale
start_of
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto

64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_of grestore
gsave 40.292900 0.510000 translate 0.035278 -0.035278 scale
start_of
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_of grestore
gsave 40.555367 0.510000 translate 0.035278 -0.035278 scale
start_of
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto

2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_ol grestore
gsave 41.071833 0.510000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 41.334300 0.510000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 21.516700 0.910000 m 21.516700 3.510000 l 52.566700 3.510000 l 52.566700 0.910000 l f
0.000000 0.000000 0.000000 srgb
n 21.516700 0.910000 m 21.516700 3.510000 l 52.566700 3.510000 l 52.566700 0.910000 l cp s
gsave 21.666700 1.610000 translate 0.035278 -0.035278 scale

start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 22.030767 1.610000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 22.394833 1.610000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 22.758900 1.610000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 23.122967 1.610000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 23.487033 1.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 23.851100 1.610000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto

895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 24.215167 1.610000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 24.579233 1.610000 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 24.943300 1.610000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 25.307367 1.610000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.671433 1.610000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto

1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 26.035500 1.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 26.399567 1.610000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto

2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 26.763633 1.610000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 27.127700 1.610000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto

1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 21.666700 2.410000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave 22.030767 2.410000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 22.394833 2.410000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 22.758900 2.410000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 23.122967 2.410000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore

gsave 23.487033 2.410000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 23.851100 2.410000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 24.215167 2.410000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 24.579233 2.410000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.943300 2.410000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 25.307367 2.410000 translate 0.035278 -0.035278 scale
start_of

2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 25.671433 2.410000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto

944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 26.035500 2.410000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 26.399567 2.410000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto

704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 26.763633 2.410000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 27.127700 2.410000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 27.491767 2.410000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 27.855833 2.410000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 28.219900 2.410000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto

1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 28.583967 2.410000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 21.666700 3.210000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 22.030767 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto

448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 22.394833 3.210000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 22.758900 3.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 23.122967 3.210000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 23.487033 3.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 23.851100 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 24.215167 3.210000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 24.579233 3.210000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 24.943300 3.210000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto

320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 25.307367 3.210000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 25.671433 3.210000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 26.035500 3.210000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.399567 3.210000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 26.763633 3.210000 translate 0.035278 -0.035278 scale

start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 27.127700 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 27.491767 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 27.855833 3.210000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 28.219900 3.210000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 28.583967 3.210000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 28.948033 3.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 29.312100 3.210000 translate 0.035278 -0.035278 scale

start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 29.676167 3.210000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 30.040233 3.210000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto

2432 167 lineto
end_of grestore
gsave 30.404300 3.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 30.768367 3.210000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 31.132433 3.210000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 31.496500 3.210000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 31.860567 3.210000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto

753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 32.224633 3.210000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 32.588700 3.210000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto

2176 756 2176 1248 conicto
end_of grestore
gsave 32.952767 3.210000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 33.316833 3.210000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto

512 3520 lineto
end_ol grestore
gsave 33.680900 3.210000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 34.044967 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 34.409033 3.210000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore

gsave 34.773100 3.210000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 35.137167 3.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 35.501233 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 35.865300 3.210000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 36.229367 3.210000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 36.593433 3.210000 translate 0.035278 -0.035278 scale

start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 36.957500 3.210000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 37.321567 3.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 37.685633 3.210000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 38.049700 3.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto

688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 38.413767 3.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 38.777833 3.210000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 39.141900 3.210000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 39.505967 3.210000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto

2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 39.870033 3.210000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 40.234100 3.210000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 40.598167 3.210000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 40.962233 3.210000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto

1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 41.326300 3.210000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 41.690367 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 42.054433 3.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto

1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 42.418500 3.210000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 42.782567 3.210000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 43.146633 3.210000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 43.510700 3.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 21.516700 3.510000 m 21.516700 6.110000 l 52.566700 6.110000 l 52.566700 3.510000 l f
0.000000 0.000000 0.000000 srgb
n 21.516700 3.510000 m 21.516700 6.110000 l 52.566700 6.110000 l 52.566700 3.510000 l cp s
gsave 21.666700 4.210000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave 22.030767 4.210000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 22.394833 4.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 22.758900 4.210000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 23.122967 4.210000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 23.487033 4.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 23.851100 4.210000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto

1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 24.215167 4.210000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 24.579233 4.210000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto

741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 24.943300 4.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 25.307367 4.210000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 25.671433 4.210000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.035500 4.210000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 26.399567 4.210000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 26.763633 4.210000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 27.127700 4.210000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto

end_of grestore
gsave 27.491767 4.210000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 27.855833 4.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 28.219900 4.210000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 28.583967 4.210000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 28.948033 4.210000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto

1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 29.312100 4.210000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 29.676167 4.210000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 30.040233 4.210000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 30.404300 4.210000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto

2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 30.768367 4.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 31.132433 4.210000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 31.496500 4.210000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto

2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 31.860567 4.210000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 32.224633 4.210000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto

1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 32.588700 4.210000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 32.952767 4.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 33.316833 4.210000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 33.680900 4.210000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto

1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 34.044967 4.210000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 34.409033 4.210000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 34.773100 4.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 35.137167 4.210000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto

2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 35.501233 4.210000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 35.865300 4.210000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 36.229367 4.210000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 36.593433 4.210000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 36.957500 4.210000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto

448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 37.321567 4.210000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 37.685633 4.210000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto

2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 38.049700 4.210000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 38.413767 4.210000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto

1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 38.777833 4.210000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 21.666700 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 22.030767 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 22.394833 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 22.758900 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 23.122967 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 23.487033 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 23.851100 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 24.215167 4.810000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 24.579233 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 24.943300 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.307367 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.671433 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 26.035500 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 26.399567 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 26.763633 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 27.127700 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 27.491767 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 27.855833 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 28.219900 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 28.583967 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 28.948033 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 29.312100 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 29.676167 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 30.040233 4.810000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 30.404300 4.810000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 30.768367 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 31.132433 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 31.496500 4.810000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto

896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 31.860567 4.810000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 32.224633 4.810000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto

876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 32.588700 4.810000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 32.952767 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 33.316833 4.810000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto

768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 33.680900 4.810000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 34.044967 4.810000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 34.409033 4.810000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 34.773100 4.810000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 35.137167 4.810000 translate 0.035278 -0.035278 scale
start_of

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 35.501233 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 35.865300 4.810000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 36.229367 4.810000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 36.593433 4.810000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto

704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 36.957500 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore

gsave 37.321567 4.810000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 37.685633 4.810000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 38.049700 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 38.413767 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 38.777833 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave 39.141900 4.810000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 39.505967 4.810000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 39.870033 4.810000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 40.234100 4.810000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 40.598167 4.810000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto

1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 40.962233 4.810000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 41.326300 4.810000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 41.690367 4.810000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave 42.054433 4.810000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 21.666700 5.610000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave 22.030767 5.610000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.394833 5.610000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto

2112 1472 lineto
end_of grestore
gsave 22.758900 5.610000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 23.122967 5.610000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.487033 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto

896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 23.851100 5.610000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 24.215167 5.610000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 24.579233 5.610000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 24.943300 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 25.307367 5.610000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 25.671433 5.610000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.035500 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 26.399567 5.610000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto

1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 26.763633 5.610000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 27.127700 5.610000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto

1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 27.491767 5.610000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 27.855833 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 28.219900 5.610000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 28.583967 5.610000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto

576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 28.948033 5.610000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 29.312100 5.610000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto

1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 29.676167 5.610000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 30.040233 5.610000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 30.404300 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 30.768367 5.610000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 31.132433 5.610000 translate 0.035278 -0.035278 scale
start_of

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 31.496500 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 31.860567 5.610000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 32.224633 5.610000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 32.588700 5.610000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto

1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 32.952767 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 33.316833 5.610000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 33.680900 5.610000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 34.044967 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 34.409033 5.610000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 34.773100 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto

384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 35.137167 5.610000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 35.501233 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore

gsave 35.865300 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore

gsave 36.229367 5.610000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore

gsave 36.593433 5.610000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto

1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 36.957500 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 37.321567 5.610000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto

832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 37.685633 5.610000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 38.049700 5.610000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto

192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 38.413767 5.610000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 38.777833 5.610000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 39.141900 5.610000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto

448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 39.505967 5.610000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 39.870033 5.610000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 40.234100 5.610000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 40.598167 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto

1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 40.962233 5.610000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 41.326300 5.610000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 41.690367 5.610000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 42.054433 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 42.418500 5.610000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 42.782567 5.610000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 43.146633 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 43.510700 5.610000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 43.874767 5.610000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 44.238833 5.610000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto

256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 44.602900 5.610000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 44.966967 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 45.331033 5.610000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 45.695100 5.610000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 46.059167 5.610000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 46.423233 5.610000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto

2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 46.787300 5.610000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 47.151367 5.610000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto

2304 -768 lineto
end_of grestore
gsave 47.515433 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 47.879500 5.610000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 48.243567 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 48.607633 5.610000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 48.971700 5.610000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto

2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 49.335767 5.610000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 49.699833 5.610000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto

320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 50.063900 5.610000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 50.427967 5.610000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 50.792033 5.610000 translate 0.035278 -0.035278 scale
start_of

832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 51.156100 5.610000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 51.520167 5.610000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 51.884233 5.610000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 52.248300 5.610000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto

2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 52.612367 5.610000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 52.976433 5.610000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto

704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 11.191700 15.810000 m 8.300000 -7.200000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 11.225000 7.350000 m 8.300000 -7.200000 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -4.400000 0.100000 m -4.400000 1.500000 l 16.750000 1.500000 l 16.750000 0.100000 l f
0.000000 0.000000 0.000000 srgb
n -4.400000 0.100000 m -4.400000 1.500000 l 16.750000 1.500000 l 16.750000 0.100000 l cp s
gsave -0.429000 1.100000 translate 0.035278 -0.035278 scale
start_of
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto

2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_of grestore
gsave 0.087467 1.100000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave 0.629333 1.100000 translate 0.035278 -0.035278 scale
start_of
1988 2496 moveto
1642 2496 1461 2257 conicto
1280 2018 1280 1568 conicto
1280 1118 1461 879 conicto
1642 640 1988 640 conicto
2328 640 2508 879 conicto
2688 1118 2688 1568 conicto
2688 2018 2508 2257 conicto
2328 2496 1988 2496 conicto
1988 3200 moveto
2800 3200 3256 2767 conicto
3712 2334 3712 1568 conicto
3712 802 3256 369 conicto

2800 -64 1988 -64 conicto
1173 -64 714 369 conicto
256 802 256 1568 conicto
256 2334 714 2767 conicto
1173 3200 1988 3200 conicto
end_of grestore
gsave 1.154267 1.100000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave 1.696133 1.100000 translate 0.035278 -0.035278 scale
start_of
64 3136 moveto
1072 3136 lineto
1920 1008 lineto
2640 3136 lineto
3648 3136 lineto
2322 -294 lineto
2122 -807 1856 -1011 conicto
1590 -1216 1154 -1216 conicto
571 -1216 lineto
571 -576 lineto
887 -576 lineto
1143 -576 1259 -495 conicto
1376 -415 1441 -206 conicto
1469 -119 lineto
64 3136 lineto
end_of grestore
gsave 2.195667 1.100000 translate 0.035278 -0.035278 scale

start_ol
3468 2617 moveto
3661 2901 3926 3050 conicto
4192 3200 4510 3200 conicto
5058 3200 5345 2865 conicto
5632 2530 5632 1891 conicto
5632 0 lineto
4608 0 lineto
4608 1620 lineto
4611 1655 4612 1694 conicto
4613 1733 4613 1805 conicto
4613 2135 4514 2283 conicto
4415 2432 4194 2432 conicto
3904 2432 3747 2199 conicto
3590 1966 3584 1525 conicto
3584 0 lineto
2560 0 lineto
2560 1620 lineto
2560 2135 2469 2283 conicto
2378 2432 2145 2432 conicto
1854 2432 1695 2197 conicto
1536 1963 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1723 2943 1966 3071 conicto
2209 3200 2502 3200 conicto
2831 3200 3084 3046 conicto
3338 2893 3468 2617 conicto
end_ol grestore
gsave 2.991533 1.100000 translate 0.035278 -0.035278 scale
start_ol
1988 2496 moveto
1642 2496 1461 2257 conicto
1280 2018 1280 1568 conicto
1280 1118 1461 879 conicto
1642 640 1988 640 conicto
2328 640 2508 879 conicto
2688 1118 2688 1568 conicto
2688 2018 2508 2257 conicto
2328 2496 1988 2496 conicto
1988 3200 moveto
2800 3200 3256 2767 conicto
3712 2334 3712 1568 conicto
3712 802 3256 369 conicto
2800 -64 1988 -64 conicto

1173 -64 714 369 conicto
256 802 256 1568 conicto
256 2334 714 2767 conicto
1173 3200 1988 3200 conicto
end_of grestore
gsave 3.516467 1.100000 translate 0.035278 -0.035278 scale
start_of
512 1241 moveto
512 3136 lineto
1536 3136 lineto
1536 2826 lineto
1536 2574 1533 2193 conicto
1530 1812 1530 1684 conicto
1530 1311 1548 1146 conicto
1567 981 1613 906 conicto
1671 809 1766 756 conicto
1861 704 1984 704 conicto
2282 704 2453 942 conicto
2624 1180 2624 1604 conicto
2624 3136 lineto
3648 3136 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2401 185 2152 60 conicto
1903 -64 1604 -64 conicto
1070 -64 791 270 conicto
512 604 512 1241 conicto
end_of grestore
gsave 4.058333 1.100000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto

1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 4.515533 1.100000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave 4.896533 1.100000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto

320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 5.353733 1.100000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 5.870200 1.100000 translate 0.035278 -0.035278 scale
start_ol
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_ol grestore

gsave 6.242733 1.100000 translate 0.035278 -0.035278 scale
start_ol
64 3136 moveto
1071 3136 lineto
1857 969 lineto
2639 3136 lineto
3648 3136 lineto
2408 0 lineto
1302 0 lineto
64 3136 lineto
end_ol grestore
gsave 6.742267 1.100000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 7.258733 1.100000 translate 0.035278 -0.035278 scale
start_ol
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto

1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_of grestore
gsave 7.631267 1.100000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave 8.012267 1.100000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave 8.461000 1.100000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto

1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_of grestore
gsave 8.833533 1.100000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 9.350000 1.100000 translate 0.035278 -0.035278 scale
start_of
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto
1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto
256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto

2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto
2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto
1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_of grestore
gsave 9.891867 1.100000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 10.408333 1.100000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto

512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 10.950200 1.100000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave 11.314267 1.100000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave 11.576733 1.100000 translate 0.035278 -0.035278 scale
start_ol
1911 1472 moveto
1597 1472 1438 1356 conicto

1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_ol grestore
gsave 12.093200 1.100000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 12.355667 1.100000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto

2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -4.400000 1.500000 m -4.400000 2.500000 1 16.750000 2.500000 1 16.750000 1.500000 1 f
0.000000 0.000000 0.000000 srgb
n -4.400000 1.500000 m -4.400000 2.500000 1 16.750000 2.500000 1 16.750000 1.500000 1 cp s
gsave -4.250000 2.200000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -3.885933 2.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto

1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -3.521867 2.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -3.157800 2.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -2.793733 2.200000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto

1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -2.429667 2.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -2.065600 2.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -1.701533 2.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -1.337467 2.200000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -0.973400 2.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -0.609333 2.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -0.245267 2.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 0.118800 2.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 0.482867 2.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 0.846933 2.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 1.211000 2.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.575067 2.200000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto

2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 1.939133 2.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 2.303200 2.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto

448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 2.667267 2.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 3.031333 2.200000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto

1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 3.395400 2.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 3.759467 2.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 4.123533 2.200000 translate 0.035278 -0.035278 scale

start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 4.487600 2.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 4.851667 2.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 5.215733 2.200000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 5.579800 2.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 5.943867 2.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 6.307933 2.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto

1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 6.672000 2.200000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto

256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 7.036067 2.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 7.400133 2.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

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gsave 7.764200 2.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -4.400000 2.500000 m -4.400000 4.300000 l 16.750000 4.300000 l 16.750000 2.500000 l f
0.000000 0.000000 0.000000 srgb
n -4.400000 2.500000 m -4.400000 4.300000 l 16.750000 4.300000 l 16.750000 2.500000 l cp s
gsave -4.250000 3.200000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -3.885933 3.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

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1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.521867 3.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -3.157800 3.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -2.793733 3.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -2.429667 3.200000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto

1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -2.065600 3.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore

gsave -1.701533 3.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -1.337467 3.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto

1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -0.973400 3.200000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -0.609333 3.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -0.245267 3.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 0.118800 3.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto

1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 0.482867 3.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 0.846933 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 1.211000 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto

1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 1.575067 3.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 1.939133 3.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto

1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 2.303200 3.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 2.667267 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 3.031333 3.200000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 3.395400 3.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 3.759467 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 4.123533 3.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.487600 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 4.851667 3.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto

1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 5.215733 3.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.579800 3.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 5.943867 3.200000 translate 0.035278 -0.035278 scale

start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 6.307933 3.200000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 6.672000 3.200000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.036067 3.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 7.400133 3.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 7.764200 3.200000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 8.128267 3.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 8.492333 3.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 8.856400 3.200000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 9.220467 3.200000 translate 0.035278 -0.035278 scale

start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 9.584533 3.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 9.948600 3.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 10.312667 3.200000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto

2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 10.676733 3.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 11.040800 3.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 11.404867 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 11.768933 3.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto

1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 12.133000 3.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 12.497067 3.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto

1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 12.861133 3.200000 translate 0.035278 -0.035278 scale
start_ol
1344 320 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 13.225200 3.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 13.589267 3.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto

1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 13.953333 3.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.317400 3.200000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto

514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 14.681467 3.200000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 15.045533 3.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 15.409600 3.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.773667 3.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto

2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 16.137733 3.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 16.501800 3.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 16.865867 3.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -4.250000 4.000000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -3.885933 4.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.521867 4.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto

end_of grestore
gsave -3.157800 4.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -2.793733 4.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -2.429667 4.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto

512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -2.065600 4.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -1.701533 4.000000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -1.337467 4.000000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -0.973400 4.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore

gsave -0.609333 4.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -0.245267 4.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 0.118800 4.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 0.482867 4.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 0.846933 4.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 1.211000 4.000000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto

2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 1.575067 4.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 1.939133 4.000000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 2.303200 4.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto

2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 2.667267 4.000000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 3.031333 4.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 3.395400 4.000000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 3.759467 4.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 4.123533 4.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 4.487600 4.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 4.851667 4.000000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto

832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 5.215733 4.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 5.579800 4.000000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 5.943867 4.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 6.307933 4.000000 translate 0.035278 -0.035278 scale

start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 6.672000 4.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 7.036067 4.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 7.400133 4.000000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto

2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 7.764200 4.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 8.128267 4.000000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto

1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 8.492333 4.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 8.856400 4.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 9.220467 4.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 9.584533 4.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 9.948600 4.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto

256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 10.312667 4.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.676733 4.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 11.040800 4.000000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto

832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 11.404867 4.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto

512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 11.768933 4.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.133000 4.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto

2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 12.497067 4.000000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 12.861133 4.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto

2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.225200 4.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 13.589267 4.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 13.953333 4.000000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 14.317400 4.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 14.681467 4.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.045533 4.000000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto

1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 15.409600 4.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 15.773667 4.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 16.137733 4.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto

2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -4.300000 7.350000 m -4.300000 8.750000 l 26.750000 8.750000 l 26.750000 7.350000 l f
0.000000 0.000000 0.000000 srgb
n -4.300000 7.350000 m -4.300000 8.750000 l 26.750000 8.750000 l 26.750000 7.350000 l cp s
gsave 6.407467 8.350000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto

1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 6.864667 8.350000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_of grestore
gsave 7.237200 8.350000 translate 0.035278 -0.035278 scale
start_of
1536 448 moveto
1536 -1216 lineto
512 -1216 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1744 2950 1996 3075 conicto
2248 3200 2577 3200 conicto
3158 3200 3531 2743 conicto
3904 2287 3904 1568 conicto
3904 850 3531 393 conicto
3158 -64 2577 -64 conicto
2248 -64 1996 60 conicto
1744 185 1536 448 conicto
2211 2496 moveto
1885 2496 1710 2256 conicto

1536 2017 1536 1567 conicto
1536 1118 1710 879 conicto
1885 640 2211 640 conicto
2536 640 2708 877 conicto
2880 1115 2880 1567 conicto
2880 2020 2708 2258 conicto
2536 2496 2211 2496 conicto
end_ol grestore
gsave 7.779067 8.350000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 8.160067 8.350000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore

gsave 8.617267 8.350000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 9.133733 8.350000 translate 0.035278 -0.035278 scale
start_ol
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_ol grestore
gsave 9.506267 8.350000 translate 0.035278 -0.035278 scale
start_ol
64 3136 moveto
1071 3136 lineto
1857 969 lineto

2639 3136 lineto
3648 3136 lineto
2408 0 lineto
1302 0 lineto
64 3136 lineto
end_of grestore
gsave 10.005800 8.350000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 10.522267 8.350000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto

end_of grestore
gsave 10.894800 8.350000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave 11.275800 8.350000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave 11.724533 8.350000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto

end_of grestore
gsave 12.097067 8.350000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 12.613533 8.350000 translate 0.035278 -0.035278 scale
start_of
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto
1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto
256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto
2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto
2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto

1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_ol grestore
gsave 13.155400 8.350000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 13.671867 8.350000 translate 0.035278 -0.035278 scale
start_ol
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto

2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 14.213733 8.350000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave 14.577800 8.350000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave 14.840267 8.350000 translate 0.035278 -0.035278 scale
start_ol
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto

2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_ol grestore
gsave 15.356733 8.350000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 15.619200 8.350000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto

737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -4.300000 8.750000 m -4.300000 11.350000 1 26.750000 11.350000 1 26.750000 8.750000 1 f
0.000000 0.000000 0.000000 srgb
n -4.300000 8.750000 m -4.300000 11.350000 1 26.750000 11.350000 1 26.750000 8.750000 1 cp s
gsave -4.150000 9.450000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -3.785933 9.450000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto

832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -3.421867 9.450000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -3.057800 9.450000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -2.693733 9.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -2.329667 9.450000 translate 0.035278 -0.035278 scale
start_ol
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_ol grestore
gsave -1.965600 9.450000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore

gsave -1.601533 9.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -1.237467 9.450000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -0.873400 9.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -0.509333 9.450000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -0.145267 9.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 0.218800 9.450000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto

1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 0.582867 9.450000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 0.946933 9.450000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto

1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 1.311000 9.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.675067 9.450000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 2.039133 9.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave 2.403200 9.450000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 2.767267 9.450000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 3.131333 9.450000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -4.150000 10.250000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -3.785933 10.250000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto

2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -3.421867 10.250000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -3.057800 10.250000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -2.693733 10.250000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -2.329667 10.250000 translate 0.035278 -0.035278 scale
start_of
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_of grestore
gsave -1.965600 10.250000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto

1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -1.601533 10.250000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -1.237467 10.250000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto

2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -0.873400 10.250000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -0.509333 10.250000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -0.145267 10.250000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto

2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 0.218800 10.250000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 0.582867 10.250000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto

2368 3520 lineto
end_of grestore
gsave 0.946933 10.250000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 1.311000 10.250000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 1.675067 10.250000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 2.039133 10.250000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 2.403200 10.250000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 2.767267 10.250000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto

1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 3.131333 10.250000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.495400 10.250000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 3.859467 10.250000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto

832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 4.223533 10.250000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 4.587600 10.250000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto

1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 4.951667 10.250000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -4.150000 11.050000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -3.785933 11.050000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto

1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -3.421867 11.050000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -3.057800 11.050000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -2.693733 11.050000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -2.329667 11.050000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -1.965600 11.050000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -1.601533 11.050000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -1.237467 11.050000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -0.873400 11.050000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto

796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -0.509333 11.050000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -0.145267 11.050000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto

1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 0.218800 11.050000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 0.582867 11.050000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore

gsave 0.946933 11.050000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 1.311000 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 1.675067 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto

1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 2.039133 11.050000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 2.403200 11.050000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 2.767267 11.050000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 3.131333 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore

gsave 3.495400 11.050000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 3.859467 11.050000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.223533 11.050000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto

2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 4.587600 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 4.951667 11.050000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 5.315733 11.050000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 5.679800 11.050000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 6.043867 11.050000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 6.407933 11.050000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 6.772000 11.050000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 7.136067 11.050000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 7.500133 11.050000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto

832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.864200 11.050000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 8.228267 11.050000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 8.592333 11.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.956400 11.050000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 9.320467 11.050000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto

1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 9.684533 11.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.048600 11.050000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore

gsave 10.412667 11.050000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 10.776733 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 11.140800 11.050000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore

gsave 11.504867 11.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.868933 11.050000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 12.233000 11.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 12.597067 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave 12.961133 11.050000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 13.325200 11.050000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.689267 11.050000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto

704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 14.053333 11.050000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 14.417400 11.050000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 14.781467 11.050000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 15.145533 11.050000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto

2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 15.509600 11.050000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 15.873667 11.050000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto

944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 16.237733 11.050000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 16.601800 11.050000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 16.965867 11.050000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 17.329933 11.050000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 17.694000 11.050000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
 1161 2240 996 2032 conicto
 832 1824 832 1436 conicto
 832 0 lineto
 448 0 lineto
 448 2496 lineto
 832 2496 lineto
 832 2160 lineto
 944 2357 1136 2458 conicto
 1328 2560 1591 2560 conicto
 1982 2560 2175 2315 conicto
 2368 2071 2368 1575 conicto
 end_of grestore
 1.000000 1.000000 1.000000 srgb
 n -4.300000 11.350000 m -4.300000 13.950000 l 26.750000 13.950000 l 26.750000 11.350000 l f
 0.000000 0.000000 0.000000 srgb
 n -4.300000 11.350000 m -4.300000 13.950000 l 26.750000 13.950000 l 26.750000 11.350000 l cp s
 gsave -4.150000 12.050000 translate 0.035278 -0.035278 scale
 start_of
 1600 2688 moveto
 1600 1664 lineto
 2624 1664 lineto
 2624 1280 lineto
 1600 1280 lineto
 1600 256 lineto
 1216 256 lineto
 1216 1280 lineto
 192 1280 lineto
 192 1664 lineto
 1216 1664 lineto
 1216 2688 lineto
 1600 2688 lineto
 end_of grestore
 gsave -3.785933 12.050000 translate 0.035278 -0.035278 scale
 start_of
 2240 2432 moveto
 2240 2048 lineto
 2054 2144 1865 2192 conicto
 1677 2240 1481 2240 conicto
 1186 2240 1041 2149 conicto
 896 2059 896 1873 conicto
 896 1706 1009 1623 conicto
 1123 1540 1575 1461 conicto
 1757 1429 lineto
 2058 1370 2213 1193 conicto
 2368 1017 2368 734 conicto
 2368 359 2100 147 conicto
 1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.421867 12.050000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -3.057800 12.050000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -2.693733 12.050000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -2.329667 12.050000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -1.965600 12.050000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -1.601533 12.050000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -1.237467 12.050000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -0.873400 12.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -0.509333 12.050000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto

1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -0.145267 12.050000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 0.218800 12.050000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 0.582867 12.050000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto

1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 0.946933 12.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 1.311000 12.050000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto

824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 1.675067 12.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 2.039133 12.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 2.403200 12.050000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 2.767267 12.050000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 3.131333 12.050000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 3.495400 12.050000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto

2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 3.859467 12.050000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 4.223533 12.050000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto

0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 4.587600 12.050000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 4.951667 12.050000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 5.315733 12.050000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto

1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 5.679800 12.050000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 6.043867 12.050000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto

960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 6.407933 12.050000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 6.772000 12.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.136067 12.050000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.500133 12.050000 translate 0.035278 -0.035278 scale
start_ol

832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 7.864200 12.050000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto

2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 8.228267 12.050000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 8.592333 12.050000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 8.956400 12.050000 translate 0.035278 -0.035278 scale
start_of
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_of grestore
gsave 9.320467 12.050000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 9.684533 12.050000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 10.048600 12.050000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto

2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 10.412667 12.050000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 10.776733 12.050000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 11.140800 12.050000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 11.504867 12.050000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 11.868933 12.050000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 12.233000 12.050000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 12.597067 12.050000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 12.961133 12.050000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 13.325200 12.050000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto

1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 13.689267 12.050000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 14.053333 12.050000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave -4.150000 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.785933 12.650000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -3.421867 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.057800 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -2.693733 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -2.329667 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -1.965600 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -1.601533 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -1.237467 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.873400 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.509333 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.145267 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 0.218800 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 0.582867 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 0.946933 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.311000 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.675067 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.039133 12.650000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 2.403200 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.767267 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.131333 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.495400 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.859467 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.223533 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.587600 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.951667 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.315733 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.679800 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.043867 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.407933 12.650000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 6.772000 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 7.136067 12.650000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.500133 12.650000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto

1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.864200 12.650000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 8.228267 12.650000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 8.592333 12.650000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 8.956400 12.650000 translate 0.035278 -0.035278 scale
start_of
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_of grestore
gsave 9.320467 12.650000 translate 0.035278 -0.035278 scale
start_of
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2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
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1703 256 1875 508 conicto

2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
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1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
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start_of
2304 -768 moveto
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0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
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start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 10.412667 12.650000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto

1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 10.776733 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 11.140800 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto

1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 11.504867 12.650000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 11.868933 12.650000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 12.233000 12.650000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto

1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 12.597067 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 12.961133 12.650000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto

512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.325200 12.650000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 13.689267 12.650000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 14.053333 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto

1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 14.417400 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 14.781467 12.650000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto

2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.145533 12.650000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 15.509600 12.650000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto

1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 15.873667 12.650000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 16.237733 12.650000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 16.601800 12.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.965867 12.650000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto

1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 17.329933 12.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 17.694000 12.650000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -4.150000 13.450000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -3.785933 13.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.421867 13.450000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -3.057800 13.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -2.693733 13.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -2.329667 13.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave -1.965600 13.450000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -1.601533 13.450000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -1.237467 13.450000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto

682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -0.873400 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -0.509333 13.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -0.145267 13.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 0.218800 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 0.582867 13.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 0.946933 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 1.311000 13.450000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto

1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 1.675067 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 2.039133 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 2.403200 13.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 2.767267 13.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 3.131333 13.450000 translate 0.035278 -0.035278 scale

start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 3.495400 13.450000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto

1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 3.859467 13.450000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 4.223533 13.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 4.587600 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto

1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 4.951667 13.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 5.315733 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.679800 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 6.043867 13.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.407933 13.450000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 6.772000 13.450000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 7.136067 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.500133 13.450000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 7.864200 13.450000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 8.228267 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 8.592333 13.450000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.956400 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 9.320467 13.450000 translate 0.035278 -0.035278 scale

start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 9.684533 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.048600 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 10.412667 13.450000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 10.776733 13.450000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto

2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 11.140800 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 11.504867 13.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto

1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 11.868933 13.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 12.233000 13.450000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 12.597067 13.450000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 12.961133 13.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 13.325200 13.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.689267 13.450000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 14.053333 13.450000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto

2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 14.417400 13.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.781467 13.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 15.145533 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 15.509600 13.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto

2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 15.873667 13.450000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 16.237733 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 16.601800 13.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto

832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 16.965867 13.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 17.329933 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 17.694000 13.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto

832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 18.058067 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 18.422133 13.450000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto

256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 18.786200 13.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 19.150267 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 19.514333 13.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 19.878400 13.450000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.242467 13.450000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 20.606533 13.450000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto

1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 20.970600 13.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 21.334667 13.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave 21.698733 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 22.062800 13.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 22.426867 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 22.790933 13.450000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 23.155000 13.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 23.519067 13.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 23.883133 13.450000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto

320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 24.247200 13.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 24.611267 13.450000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 24.975333 13.450000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto

1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 25.339400 13.450000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 25.703467 13.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 26.067533 13.450000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 26.431600 13.450000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto

1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 26.795667 13.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 27.159733 13.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto

1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -28.400000 0.050000 m -28.400000 1.450000 1 -5.900000 1.450000 1 -5.900000 0.050000 1 f
0.000000 0.000000 0.000000 srgb
n -28.400000 0.050000 m -28.400000 1.450000 1 -5.900000 1.450000 1 -5.900000 0.050000 1 cp s
gsave -21.925200 1.050000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_ol grestore
gsave -21.476467 1.050000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto

1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave -20.960000 1.050000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_of grestore
gsave -20.587467 1.050000 translate 0.035278 -0.035278 scale
start_of
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto

64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave -20.223400 1.050000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave -19.960933 1.050000 translate 0.035278 -0.035278 scale
start_ol
2624 4352 moveto
2624 3712 lineto
2034 3712 lineto
1827 3712 1745 3633 conicto
1664 3555 1664 3359 conicto
1664 3136 lineto
2496 3136 lineto
2496 2432 lineto
1664 2432 lineto
1664 0 lineto
640 0 lineto
640 2432 lineto
128 2432 lineto
128 3136 lineto
640 3136 lineto
640 3359 lineto
640 3867 929 4109 conicto
1219 4352 1827 4352 conicto
2624 4352 lineto
end_ol grestore
gsave -19.630733 1.050000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto

1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_of grestore
gsave -19.368267 1.050000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave -18.919533 1.050000 translate 0.035278 -0.035278 scale
start_of
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto

2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_ol grestore
gsave -18.403067 1.050000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave -18.039000 1.050000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto

256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave -17.522533 1.050000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave -17.141533 1.050000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave -16.692800 1.050000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto

1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_ol grestore
gsave -16.320267 1.050000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave -15.803800 1.050000 translate 0.035278 -0.035278 scale
start_ol
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto
1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto

256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto
2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto
2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto
1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_of grestore
gsave -15.261933 1.050000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave -14.745467 1.050000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto

2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave -14.203600 1.050000 translate 0.035278 -0.035278 scale
start_of
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_of grestore
gsave -13.839533 1.050000 translate 0.035278 -0.035278 scale
start_of
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto

end_of grestore
gsave -13.577067 1.050000 translate 0.035278 -0.035278 scale
start_of
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_of grestore
gsave -13.060600 1.050000 translate 0.035278 -0.035278 scale
start_of
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_of grestore
gsave -12.798133 1.050000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto

1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -28.400000 1.450000 m -28.400000 7.250000 l -5.900000 7.250000 l -5.900000 1.450000 l f
0.000000 0.000000 0.000000 srgb
n -28.400000 1.450000 m -28.400000 7.250000 l -5.900000 7.250000 l -5.900000 1.450000 l cp s
gsave -28.250000 2.150000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -27.885933 2.150000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto

824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -27.521867 2.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -27.157800 2.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.793733 2.150000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto

448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -26.429667 2.150000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -26.065600 2.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -25.701533 2.150000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -25.337467 2.150000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -24.973400 2.150000 translate 0.035278 -0.035278 scale

start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.609333 2.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.245267 2.150000 translate 0.035278 -0.035278 scale

start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -23.881200 2.150000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -23.517133 2.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -23.153067 2.150000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -22.789000 2.150000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -22.424933 2.150000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto

1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -22.060867 2.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave -21.696800 2.150000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -21.332733 2.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -20.968667 2.150000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto

1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -20.604600 2.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -20.240533 2.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -19.876467 2.150000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -19.512400 2.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave -19.148333 2.150000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -18.784267 2.150000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -18.420200 2.150000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto

2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -18.056133 2.150000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -17.692067 2.150000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto

704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -17.328000 2.150000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto

1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -16.963933 2.150000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -16.599867 2.150000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -16.235800 2.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -28.250000 2.950000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -27.885933 2.950000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -27.521867 2.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.157800 2.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto

1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -26.793733 2.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.429667 2.950000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -26.065600 2.950000 translate 0.035278 -0.035278 scale
start_of
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_of grestore
gsave -25.701533 2.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto

832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -25.337467 2.950000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -24.973400 2.950000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -24.609333 2.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.245267 2.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -23.881200 2.950000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto

1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -23.517133 2.950000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -23.153067 2.950000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto

832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -22.789000 2.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -22.424933 2.950000 translate 0.035278 -0.035278 scale
start_of

1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -22.060867 2.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -21.696800 2.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -21.332733 2.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.968667 2.950000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -20.604600 2.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -20.240533 2.950000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -19.876467 2.950000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -19.512400 2.950000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto

1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -19.148333 2.950000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -18.784267 2.950000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto

1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -18.420200 2.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -18.056133 2.950000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -17.692067 2.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of gstore
gsave -17.328000 2.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of gstore
gsave -16.963933 2.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -16.599867 2.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -16.235800 2.950000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto

2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -15.871733 2.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -15.507667 2.950000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto

2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -15.143600 2.950000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -14.779533 2.950000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -14.415467 2.950000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto

2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -14.051400 2.950000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave -13.687333 2.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -13.323267 2.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -12.959200 2.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave -28.250000 3.750000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -27.885933 3.750000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -27.521867 3.750000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.157800 3.750000 translate 0.035278 -0.035278 scale
start_of

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -26.793733 3.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -26.429667 3.750000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto

1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -26.065600 3.750000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave -25.701533 3.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -25.337467 3.750000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto

1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -24.973400 3.750000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -24.609333 3.750000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto

2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -24.245267 3.750000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto

end_of grestore
gsave -23.881200 3.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -23.517133 3.750000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -23.153067 3.750000 translate 0.035278 -0.035278 scale
start_of

end_of grestore
gsave -22.789000 3.750000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -22.424933 3.750000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -22.060867 3.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -21.696800 3.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -21.332733 3.750000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto

1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -20.968667 3.750000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -20.604600 3.750000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -20.240533 3.750000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto

1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -19.876467 3.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -19.512400 3.750000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -19.148333 3.750000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave -18.784267 3.750000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -18.420200 3.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -18.056133 3.750000 translate 0.035278 -0.035278 scale
start_of
192 1152 moveto
2560 1152 lineto
2560 768 lineto
192 768 lineto
192 1152 lineto
192 2048 moveto
2560 2048 lineto
2560 1664 lineto
192 1664 lineto
192 2048 lineto
end_of grestore
gsave -17.692067 3.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -17.328000 3.750000 translate 0.035278 -0.035278 scale
start_of
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto

1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_ol grestore
gsave -28.250000 4.550000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -27.885933 4.550000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -27.521867 4.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -27.157800 4.550000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -26.793733 4.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -26.429667 4.550000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave -26.065600 4.550000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -25.701533 4.550000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto

2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -25.337467 4.550000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -24.973400 4.550000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -24.609333 4.550000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto

2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -24.245267 4.550000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -23.881200 4.550000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -23.517133 4.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.153067 4.550000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto

1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -22.789000 4.550000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -22.424933 4.550000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto

833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -22.060867 4.550000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -21.696800 4.550000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -21.332733 4.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -20.968667 4.550000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -20.604600 4.550000 translate 0.035278 -0.035278 scale
start_of
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto

end_of grestore
gsave -20.240533 4.550000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_of grestore
gsave -19.876467 4.550000 translate 0.035278 -0.035278 scale
start_of
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto

1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_of grestore
gsave -19.512400 4.550000 translate 0.035278 -0.035278 scale
start_of
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -19.148333 4.550000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -18.784267 4.550000 translate 0.035278 -0.035278 scale

start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -18.420200 4.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -18.056133 4.550000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -17.692067 4.550000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -17.328000 4.550000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -16.963933 4.550000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto

2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave -28.250000 5.350000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -27.885933 5.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -27.521867 5.350000 translate 0.035278 -0.035278 scale

start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -27.157800 5.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -26.793733 5.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.429667 5.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto

1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -26.065600 5.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -25.701533 5.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -25.337467 5.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -24.973400 5.350000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -24.609333 5.350000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -24.245267 5.350000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -23.881200 5.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -23.517133 5.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -23.153067 5.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto

960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -22.789000 5.350000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -22.424933 5.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -22.060867 5.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -21.696800 5.350000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -21.332733 5.350000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto

1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_ol grestore
gsave -20.968667 5.350000 translate 0.035278 -0.035278 scale
start_ol
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_ol grestore
gsave -20.604600 5.350000 translate 0.035278 -0.035278 scale
start_ol
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto

720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -20.240533 5.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -19.876467 5.350000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -19.512400 5.350000 translate 0.035278 -0.035278 scale

start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -19.148333 5.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -18.784267 5.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -18.420200 5.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -18.056133 5.350000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -28.250000 6.150000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -27.885933 6.150000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto

2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -27.521867 6.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.157800 6.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto

2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -26.793733 6.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.429667 6.150000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto

576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -26.065600 6.150000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -25.701533 6.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto

end_of grestore
gsave -25.337467 6.150000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -24.973400 6.150000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -24.609333 6.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -24.245267 6.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -23.881200 6.150000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -23.517133 6.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.153067 6.150000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto

2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -22.789000 6.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -22.424933 6.150000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto

1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -22.060867 6.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -21.696800 6.150000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -21.332733 6.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -20.968667 6.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -20.604600 6.150000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto

1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -20.240533 6.150000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_ol grestore
gsave -19.876467 6.150000 translate 0.035278 -0.035278 scale
start_ol
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto

2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_ol grestore
gsave -19.512400 6.150000 translate 0.035278 -0.035278 scale
start_ol
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_ol grestore
gsave -19.148333 6.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto

2304 -768 lineto
end_of grestore
gsave -18.784267 6.150000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -18.420200 6.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -18.056133 6.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -17.692067 6.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -17.328000 6.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -28.250000 6.950000 translate 0.035278 -0.035278 scale
start_ol

832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -27.885933 6.950000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave -27.521867 6.950000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore

gsave -27.157800 6.950000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave -26.793733 6.950000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -26.429667 6.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.065600 6.950000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto

1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -25.701533 6.950000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -25.337467 6.950000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto

832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -24.973400 6.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -24.609333 6.950000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto

192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -24.245267 6.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -23.881200 6.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -23.517133 6.950000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto

2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -23.153067 6.950000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_ol grestore
gsave -22.789000 6.950000 translate 0.035278 -0.035278 scale
start_ol
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto

1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_ol grestore
gsave -22.424933 6.950000 translate 0.035278 -0.035278 scale
start_ol
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto

730 2 576 64 conicto
end_of grestore
gsave -22.060867 6.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -21.696800 6.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -21.332733 6.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto

1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -20.968667 6.950000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -20.604600 6.950000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -20.240533 6.950000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto

896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave -19.876467 6.950000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -19.512400 6.950000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto

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end_of grestore
gsave -19.148333 6.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -18.784267 6.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
1.000000 1.000000 1.000000 srgb
n -28.400000 7.250000 m -28.400000 14.650000 l -5.900000 14.650000 l -5.900000 7.250000 l f
0.000000 0.000000 0.000000 srgb
n -28.400000 7.250000 m -28.400000 14.650000 l -5.900000 14.650000 l -5.900000 7.250000 l cp s
gsave -28.250000 7.950000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto

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1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -27.885933 7.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.521867 7.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -27.157800 7.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.793733 7.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.429667 7.950000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -26.065600 7.950000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -25.701533 7.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave -25.337467 7.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -24.973400 7.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto

895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -24.609333 7.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -24.245267 7.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto

2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -23.881200 7.950000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto

935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave -23.517133 7.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -23.153067 7.950000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto

1984 3520 lineto
end_of grestore
gsave -22.789000 7.950000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -22.424933 7.950000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -22.060867 7.950000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -21.696800 7.950000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto

2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -21.332733 7.950000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.968667 7.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto

2304 -768 lineto
end_of grestore
gsave -20.604600 7.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -20.240533 7.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -19.876467 7.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -19.512400 7.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto

2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -19.148333 7.950000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto

714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -18.784267 7.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -18.420200 7.950000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto

1088 704 lineto
end_of grestore
gsave -18.056133 7.950000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -17.692067 7.950000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -17.328000 7.950000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -16.963933 7.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto

960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.599867 7.950000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -16.235800 7.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -15.871733 7.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -15.507667 7.950000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -15.143600 7.950000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -14.779533 7.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -14.415467 7.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -14.051400 7.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto

704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -13.687333 7.950000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto

end_of grestore
gsave -13.323267 7.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -12.959200 7.950000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto

2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave -12.595133 7.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto

1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -12.231067 7.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -11.867000 7.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -11.502933 7.950000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore

gsave -11.138867 7.950000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -10.774800 7.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -10.410733 7.950000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -10.046667 7.950000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore

gsave -9.682600 7.950000 translate 0.035278 -0.035278 scale

start_ol

576 2496 moveto

1600 2496 lineto

1600 320 lineto

2432 320 lineto

2432 0 lineto

384 0 lineto

384 320 lineto

1216 320 lineto

1216 2176 lineto

576 2176 lineto

576 2496 lineto

1216 3520 moveto

1600 3520 lineto

1600 3008 lineto

1216 3008 lineto

1216 3520 lineto

end_ol grestore

gsave -9.318533 7.950000 translate 0.035278 -0.035278 scale

start_ol

2048 2207 moveto

2048 3520 lineto

2432 3520 lineto

2432 0 lineto

2048 0 lineto

2048 288 lineto

1935 117 1749 26 conicto

1563 -64 1319 -64 conicto

824 -64 540 287 conicto

256 639 256 1257 conicto

256 1866 541 2213 conicto

826 2560 1319 2560 conicto

1565 2560 1753 2469 conicto

1941 2379 2048 2207 conicto

704 1248 moveto

704 756 873 506 conicto

1042 256 1373 256 conicto

1703 256 1875 508 conicto

2048 761 2048 1248 conicto

2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto

1042 2240 873 1989 conicto

704 1739 704 1248 conicto

end_ol grestore

gsave -28.250000 8.750000 translate 0.035278 -0.035278 scale

start_ol

1600 2688 moveto

1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -27.885933 8.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.521867 8.750000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.157800 8.750000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.793733 8.750000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -26.429667 8.750000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -26.065600 8.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -25.701533 8.750000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -25.337467 8.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto

0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -24.973400 8.750000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -24.609333 8.750000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -24.245267 8.750000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto

832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave -23.881200 8.750000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -23.517133 8.750000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto

2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -23.153067 8.750000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -22.789000 8.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -22.424933 8.750000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto

448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -22.060867 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -21.696800 8.750000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -21.332733 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -20.968667 8.750000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -20.604600 8.750000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -20.240533 8.750000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -19.876467 8.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto

1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -19.512400 8.750000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -19.148333 8.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -18.784267 8.750000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto

832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -18.420200 8.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -18.056133 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -17.692067 8.750000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -17.328000 8.750000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto

2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -16.963933 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -16.599867 8.750000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -16.235800 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -15.871733 8.750000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -15.507667 8.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -15.143600 8.750000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -14.779533 8.750000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto

2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -14.415467 8.750000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -14.051400 8.750000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto

832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -13.687333 8.750000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -13.323267 8.750000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto

1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -12.959200 8.750000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -12.595133 8.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -12.231067 8.750000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -11.867000 8.750000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore

gsave -11.502933 8.750000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -11.138867 8.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -10.774800 8.750000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto

448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -10.410733 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -10.046667 8.750000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -9.682600 8.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -9.318533 8.750000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -8.954467 8.750000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -8.590400 8.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -8.226333 8.750000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -7.862267 8.750000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -7.498200 8.750000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -7.134133 8.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -6.770067 8.750000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto

2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -6.406000 8.750000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -6.041933 8.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -5.677867 8.750000 translate 0.035278 -0.035278 scale
start_ol

2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -28.250000 9.550000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -27.885933 9.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.521867 9.550000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto

2112 1472 lineto
end_of grestore
gsave -27.157800 9.550000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -26.793733 9.550000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -26.429667 9.550000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave -26.065600 9.550000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto

688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -25.701533 9.550000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -25.337467 9.550000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto

1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -24.973400 9.550000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -24.609333 9.550000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto

2624 2496 lineto
1962 784 lineto
end_of grestore
gsave -24.245267 9.550000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -23.881200 9.550000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -23.517133 9.550000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto

end_of_grestore
gsave -23.153067 9.550000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of_grestore
gsave -22.789000 9.550000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto

2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -22.424933 9.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -22.060867 9.550000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -21.696800 9.550000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -21.332733 9.550000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.968667 9.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.604600 9.550000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -20.240533 9.550000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto

1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -19.876467 9.550000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -19.512400 9.550000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto

704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -19.148333 9.550000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -18.784267 9.550000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -18.420200 9.550000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -18.056133 9.550000 translate 0.035278 -0.035278 scale
start_of

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -17.692067 9.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_of grestore
gsave -17.328000 9.550000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -16.963933 9.550000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto

256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave -16.599867 9.550000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -16.235800 9.550000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -15.871733 9.550000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -15.507667 9.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -15.143600 9.550000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -14.779533 9.550000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -14.415467 9.550000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave -14.051400 9.550000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -13.687333 9.550000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -13.323267 9.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -12.959200 9.550000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave -12.595133 9.550000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto

1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -12.231067 9.550000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -11.867000 9.550000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto

1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave -28.250000 10.350000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -27.885933 10.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -27.521867 10.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -27.157800 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.793733 10.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.429667 10.350000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -26.065600 10.350000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto

967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_ol grestore
gsave -25.701533 10.350000 translate 0.035278 -0.035278 scale
start_ol
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_ol grestore
gsave -25.337467 10.350000 translate 0.035278 -0.035278 scale
start_ol
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto

1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -24.973400 10.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -24.609333 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -24.245267 10.350000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -23.881200 10.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -23.517133 10.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto

2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -23.153067 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto

960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -22.789000 10.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -22.424933 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -22.060867 10.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -21.696800 10.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -21.332733 10.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -20.968667 10.350000 translate 0.035278 -0.035278 scale
start_ol

1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave -20.604600 10.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -20.240533 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -19.876467 10.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -19.512400 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -19.148333 10.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -18.784267 10.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -18.420200 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -18.056133 10.350000 translate 0.035278 -0.035278 scale
start_ol

576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -17.692067 10.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -17.328000 10.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -16.963933 10.350000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -16.599867 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -16.235800 10.350000 translate 0.035278 -0.035278 scale
start_ol

1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -15.871733 10.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -15.507667 10.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -15.143600 10.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -14.779533 10.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore

gsave -14.415467 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore

gsave -14.051400 10.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore

gsave -13.687333 10.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto

704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -13.323267 10.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore

gsave -12.959200 10.350000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave -12.595133 10.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -12.231067 10.350000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave -28.250000 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.885933 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.521867 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -27.157800 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.793733 10.950000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -26.429667 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -26.065600 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -25.701533 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -25.337467 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.973400 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.609333 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.245267 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.881200 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.517133 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.153067 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.789000 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.424933 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.060867 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.696800 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.332733 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.968667 10.950000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -20.604600 10.950000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -20.240533 10.950000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -19.876467 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -19.512400 10.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -19.148333 10.950000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave -18.784267 10.950000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto

2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -18.420200 10.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -18.056133 10.950000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto

1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -17.692067 10.950000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -17.328000 10.950000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -16.963933 10.950000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave -16.599867 10.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -16.235800 10.950000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -15.871733 10.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -15.507667 10.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -15.143600 10.950000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -14.779533 10.950000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto

984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_of grestore
gsave -14.415467 10.950000 translate 0.035278 -0.035278 scale
start_of
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_of grestore
gsave -14.051400 10.950000 translate 0.035278 -0.035278 scale
start_of
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto

768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -13.687333 10.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -13.323267 10.950000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto

2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -12.959200 10.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -12.595133 10.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -12.231067 10.950000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto

0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -11.867000 10.950000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -11.502933 10.950000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto

256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave -11.138867 10.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -10.774800 10.950000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -10.410733 10.950000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto

2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -10.046667 10.950000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -9.682600 10.950000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -9.318533 10.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -8.954467 10.950000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto

2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -8.590400 10.950000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -8.226333 10.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -28.250000 11.750000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -27.885933 11.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -27.521867 11.750000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -27.157800 11.750000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.793733 11.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.429667 11.750000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave -26.065600 11.750000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto

984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_of grestore
gsave -25.701533 11.750000 translate 0.035278 -0.035278 scale
start_of
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto
1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_of grestore
gsave -25.337467 11.750000 translate 0.035278 -0.035278 scale
start_of
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto

768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -24.973400 11.750000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -24.609333 11.750000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto

2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -24.245267 11.750000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -23.881200 11.750000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -23.517133 11.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -23.153067 11.750000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto

2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -22.789000 11.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -22.424933 11.750000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto

1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -22.060867 11.750000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -21.696800 11.750000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -21.332733 11.750000 translate 0.035278 -0.035278 scale
start_ol

576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -20.968667 11.750000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.604600 11.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.240533 11.750000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto

1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -19.876467 11.750000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -19.512400 11.750000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore

gsave -19.148333 11.750000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -18.784267 11.750000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -18.420200 11.750000 translate 0.035278 -0.035278 scale

start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto

1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -18.056133 11.750000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -17.692067 11.750000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore

gsave -17.328000 11.750000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto

end_ol grestore
gsave -16.963933 11.750000 translate 0.035278 -0.035278 scale

start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto

end_ol grestore
gsave -16.599867 11.750000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -16.235800 11.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -15.871733 11.750000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -15.507667 11.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -15.143600 11.750000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -14.779533 11.750000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -14.415467 11.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto

1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -14.051400 11.750000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -13.687333 11.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -13.323267 11.750000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto

end_of grestore
gsave -12.959200 11.750000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave -28.250000 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -27.885933 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -27.521867 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -27.157800 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -26.793733 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -26.429667 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -26.065600 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -25.701533 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -25.337467 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.973400 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.609333 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -24.245267 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -23.881200 12.350000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -23.517133 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.153067 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.789000 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.424933 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.060867 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.696800 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.332733 12.350000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -20.968667 12.350000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto

832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.604600 12.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.240533 12.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -19.876467 12.350000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto

256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_of grestore
gsave -19.512400 12.350000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -19.148333 12.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -18.784267 12.350000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -18.420200 12.350000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto

1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave -18.056133 12.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -17.692067 12.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto

833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave -17.328000 12.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -16.963933 12.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -16.599867 12.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -16.235800 12.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -15.871733 12.350000 translate 0.035278 -0.035278 scale
start_of
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto

end_of grestore
gsave -15.507667 12.350000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_of grestore
gsave -15.143600 12.350000 translate 0.035278 -0.035278 scale
start_of
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto

1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_of grestore
gsave -14.779533 12.350000 translate 0.035278 -0.035278 scale
start_of
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -14.415467 12.350000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -14.051400 12.350000 translate 0.035278 -0.035278 scale

start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -13.687333 12.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -13.323267 12.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -12.959200 12.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -12.595133 12.350000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -12.231067 12.350000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto

2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave -11.867000 12.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave -11.502933 12.350000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -11.138867 12.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -10.774800 12.350000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -10.410733 12.350000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto

1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -10.046667 12.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -9.682600 12.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -9.318533 12.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -8.954467 12.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -28.250000 13.150000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -27.885933 13.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -27.521867 13.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto

741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -27.157800 13.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -26.793733 13.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -26.429667 13.150000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto

end_of grestore
gsave -26.065600 13.150000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2240 3328 lineto
2240 2944 lineto
896 2944 lineto
896 2170 lineto
998 2206 1100 2223 conicto
1202 2240 1306 2240 conicto
1854 2240 2175 1929 conicto
2496 1618 2496 1088 conicto
2496 553 2161 244 conicto
1826 -64 1246 -64 conicto
967 -64 735 -32 conicto
503 0 320 64 conicto
320 512 lineto
540 416 762 368 conicto
984 320 1216 320 conicto
1615 320 1831 520 conicto
2048 720 2048 1089 conicto
2048 1452 1821 1654 conicto
1594 1856 1188 1856 conicto
992 1856 804 1808 conicto
617 1760 448 1664 conicto
448 3328 lineto
end_of grestore
gsave -25.701533 13.150000 translate 0.035278 -0.035278 scale
start_of
1088 1696 moveto
1088 1813 1171 1898 conicto
1254 1984 1371 1984 conicto
1491 1984 1577 1898 conicto
1664 1813 1664 1696 conicto
1664 1576 1578 1492 conicto
1493 1408 1371 1408 conicto
1250 1408 1169 1489 conicto
1088 1571 1088 1696 conicto
1407 3008 moveto
1085 3008 926 2675 conicto
768 2343 768 1663 conicto
768 985 926 652 conicto
1085 320 1407 320 conicto
1732 320 1890 652 conicto
2048 985 2048 1663 conicto
2048 2343 1890 2675 conicto
1732 3008 1407 3008 conicto
1407 3392 moveto

1945 3392 2220 2954 conicto
2496 2517 2496 1663 conicto
2496 811 2220 373 conicto
1945 -64 1407 -64 conicto
869 -64 594 373 conicto
320 811 320 1663 conicto
320 2517 594 2954 conicto
869 3392 1407 3392 conicto
end_of grestore
gsave -25.337467 13.150000 translate 0.035278 -0.035278 scale
start_of
1369 1536 moveto
1656 1536 1820 1731 conicto
1984 1927 1984 2272 conicto
1984 2616 1820 2812 conicto
1656 3008 1369 3008 conicto
1071 3008 919 2821 conicto
768 2635 768 2272 conicto
768 1906 918 1721 conicto
1068 1536 1369 1536 conicto
576 64 moveto
576 512 lineto
720 419 882 369 conicto
1045 320 1222 320 conicto
1661 320 1886 654 conicto
2112 989 2112 1639 conicto
2004 1404 1809 1278 conicto
1614 1152 1360 1152 conicto
864 1152 592 1445 conicto
320 1739 320 2277 conicto
320 2808 593 3100 conicto
867 3392 1366 3392 conicto
1951 3392 2223 2975 conicto
2496 2558 2496 1663 conicto
2496 822 2170 379 conicto
1845 -64 1225 -64 conicto
1061 -64 895 -31 conicto
730 2 576 64 conicto
end_of grestore
gsave -24.973400 13.150000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -24.609333 13.150000 translate 0.035278 -0.035278 scale

start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave -24.245267 13.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -23.881200 13.150000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto

448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave -23.517133 13.150000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -23.153067 13.150000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -22.789000 13.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto

2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -22.424933 13.150000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -22.060867 13.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -21.696800 13.150000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave -21.332733 13.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -20.968667 13.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.604600 13.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.240533 13.150000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -19.876467 13.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -19.512400 13.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -19.148333 13.150000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -18.784267 13.150000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave -18.420200 13.150000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave -18.056133 13.150000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto

576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -17.692067 13.150000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave -17.328000 13.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto

2112 1472 lineto
end_of grestore
gsave -16.963933 13.150000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -16.599867 13.150000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -16.235800 13.150000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto

1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -15.871733 13.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -15.507667 13.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave -15.143600 13.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -14.779533 13.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -14.415467 13.150000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -14.051400 13.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -13.687333 13.150000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto

2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -13.323267 13.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -12.959200 13.150000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto

1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -12.595133 13.150000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave -28.250000 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -27.885933 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -27.521867 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -27.157800 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -26.793733 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -26.429667 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -26.065600 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -25.701533 13.750000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -25.337467 13.750000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -24.973400 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.609333 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -24.245267 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.881200 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.517133 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -23.153067 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.789000 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.424933 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -22.060867 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.696800 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -21.332733 13.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -20.968667 13.750000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -20.604600 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -20.240533 13.750000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave -19.876467 13.750000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -19.512400 13.750000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave -19.148333 13.750000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -18.784267 13.750000 translate 0.035278 -0.035278 scale

start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave -18.420200 13.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -18.056133 13.750000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto

1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -17.692067 13.750000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -17.328000 13.750000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave -16.963933 13.750000 translate 0.035278 -0.035278 scale

start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -16.599867 13.750000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave -16.235800 13.750000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -15.871733 13.750000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -15.507667 13.750000 translate 0.035278 -0.035278 scale
start_of

1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -15.143600 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -14.779533 13.750000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave -14.415467 13.750000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -14.051400 13.750000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -13.687333 13.750000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -13.323267 13.750000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -12.959200 13.750000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto

1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave -12.595133 13.750000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -12.231067 13.750000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -11.867000 13.750000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave -11.502933 13.750000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -11.138867 13.750000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -4.333260 15.810000 m -4.333260 17.210000 l 26.716740 17.210000 l 26.716740 15.810000 l f
0.000000 0.000000 0.000000 srgb
n -4.333260 15.810000 m -4.333260 17.210000 l 26.716740 17.210000 l 26.716740 15.810000 l cp s
gsave 6.543540 16.810000 translate 0.035278 -0.035278 scale
start_ol

3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 7.000740 16.810000 translate 0.035278 -0.035278 scale
start_ol
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_ol grestore

gsave 7.373273 16.810000 translate 0.035278 -0.035278 scale
start_ol
1536 448 moveto
1536 -1216 lineto
512 -1216 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1744 2950 1996 3075 conicto
2248 3200 2577 3200 conicto
3158 3200 3531 2743 conicto
3904 2287 3904 1568 conicto
3904 850 3531 393 conicto
3158 -64 2577 -64 conicto
2248 -64 1996 60 conicto
1744 185 1536 448 conicto
2211 2496 moveto
1885 2496 1710 2256 conicto
1536 2017 1536 1567 conicto
1536 1118 1710 879 conicto
1885 640 2211 640 conicto
2536 640 2708 877 conicto
2880 1115 2880 1567 conicto
2880 2020 2708 2258 conicto
2536 2496 2211 2496 conicto
end_ol grestore
gsave 7.915140 16.810000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 8.296140 16.810000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto

2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_ol grestore
gsave 8.744873 16.810000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 9.007340 16.810000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave 9.269807 16.810000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto

2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 9.786273 16.810000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave 10.328140 16.810000 translate 0.035278 -0.035278 scale
start_of
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto

576 4032 lineto
1600 4032 lineto
end_of grestore
gsave 10.692207 16.810000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave 11.073207 16.810000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2240 lineto
2803 2371 2596 2433 conicto
2390 2496 2169 2496 conicto
1748 2496 1514 2251 conicto
1280 2007 1280 1568 conicto
1280 1130 1514 885 conicto
1748 640 2169 640 conicto
2404 640 2616 704 conicto
2828 769 3008 896 conicto
3008 64 lineto
2774 0 2533 -32 conicto
2293 -64 2051 -64 conicto
1207 -64 731 367 conicto
256 799 256 1568 conicto
256 2337 731 2768 conicto
1207 3200 2051 3200 conicto
2296 3200 2533 3168 conicto
2771 3136 3008 3072 conicto
end_of grestore
gsave 11.521940 16.810000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto

2763 3193 2877 3181 conicto
2880 2240 lineto
end_ol grestore
gsave 11.894473 16.810000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 12.410940 16.810000 translate 0.035278 -0.035278 scale
start_ol
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto
1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto
256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto
2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto

2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto
1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_of grestore
gsave 12.952807 16.810000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 13.469273 16.810000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto

1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 14.011140 16.810000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave 14.375207 16.810000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave 14.637673 16.810000 translate 0.035278 -0.035278 scale
start_ol
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto

2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto
1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_ol grestore
gsave 15.154140 16.810000 translate 0.035278 -0.035278 scale
start_ol
512 4352 moveto
1536 4352 lineto
1536 0 lineto
512 0 lineto
512 4352 lineto
end_ol grestore
gsave 15.416607 16.810000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto

2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -4.333260 17.210000 m -4.333260 19.810000 l 26.716740 19.810000 l 26.716740 17.210000 l f
0.000000 0.000000 0.000000 srgb
n -4.333260 17.210000 m -4.333260 19.810000 l 26.716740 19.810000 l 26.716740 17.210000 l cp s
gsave -4.183260 17.910000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave -3.819193 17.910000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto

448 425 448 921 conicto
end_of grestore
gsave -3.455127 17.910000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.091060 17.910000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -2.726993 17.910000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave -2.362927 17.910000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave -1.998860 17.910000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -1.634793 17.910000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto

2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave -1.270727 17.910000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -0.906660 17.910000 translate 0.035278 -0.035278 scale

start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -0.542593 17.910000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.178527 17.910000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 0.185540 17.910000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 0.549607 17.910000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 0.913673 17.910000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto

2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 1.277740 17.910000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -4.183260 18.710000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -3.819193 18.710000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto

832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave -3.455127 18.710000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave -3.091060 18.710000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -2.726993 18.710000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -2.362927 18.710000 translate 0.035278 -0.035278 scale
start_of
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_of grestore
gsave -1.998860 18.710000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto

768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave -1.634793 18.710000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -1.270727 18.710000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto

826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -0.906660 18.710000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave -0.542593 18.710000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.178527 18.710000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto

2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 0.185540 18.710000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 0.549607 18.710000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 0.913673 18.710000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 1.277740 18.710000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto

2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave -4.183260 19.510000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave -3.819193 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -3.455127 19.510000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto

2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave -3.091060 19.510000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -2.726993 19.510000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto

1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave -2.362927 19.510000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -1.998860 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto

944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave -1.634793 19.510000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -1.270727 19.510000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -0.906660 19.510000 translate 0.035278 -0.035278 scale
start_of

1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave -0.542593 19.510000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto

1408 889 lineto
end_of grestore
gsave -0.178527 19.510000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 0.185540 19.510000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 0.549607 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto

1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 0.913673 19.510000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 1.277740 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 1.641807 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 2.005873 19.510000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto

960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 2.369940 19.510000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 2.734007 19.510000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 3.098073 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 3.462140 19.510000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 3.826207 19.510000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.190273 19.510000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto

512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 4.554340 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 4.918407 19.510000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto

1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 5.282473 19.510000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 5.646540 19.510000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto

end_of grestore
gsave 6.010607 19.510000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 6.374673 19.510000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 6.738740 19.510000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 7.102807 19.510000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 7.466873 19.510000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto

448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 7.830940 19.510000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 8.195007 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto

2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 8.559073 19.510000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 8.923140 19.510000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 9.287207 19.510000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 9.651273 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.015340 19.510000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 10.379407 19.510000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 10.743473 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 11.107540 19.510000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto

832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 11.471607 19.510000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.835673 19.510000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto

256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 12.199740 19.510000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 12.563807 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 12.927873 19.510000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 13.291940 19.510000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.656007 19.510000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 14.020073 19.510000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto

1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 14.384140 19.510000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 14.748207 19.510000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave 15.112273 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 15.476340 19.510000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 15.840407 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 16.204473 19.510000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 16.568540 19.510000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 16.932607 19.510000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 17.296673 19.510000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto

320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 17.660740 19.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n -4.333260 19.810000 m -4.333260 22.410000 l 26.716740 22.410000 l 26.716740 19.810000 l f
0.000000 0.000000 0.000000 srgb
n -4.333260 19.810000 m -4.333260 22.410000 l 26.716740 22.410000 l 26.716740 19.810000 l cp s
gsave -4.183260 20.510000 translate 0.035278 -0.035278 scale
start_ol
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto
192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_ol grestore
gsave -3.819193 20.510000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.455127 20.510000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -3.091060 20.510000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -2.726993 20.510000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -2.362927 20.510000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto

1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -1.998860 20.510000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -1.634793 20.510000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -1.270727 20.510000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -0.906660 20.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -0.542593 20.510000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -0.178527 20.510000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 0.185540 20.510000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 0.549607 20.510000 translate 0.035278 -0.035278 scale
start_ol

2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 0.913673 20.510000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 1.277740 20.510000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto

2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 1.641807 20.510000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 2.005873 20.510000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 2.369940 20.510000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 2.734007 20.510000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 3.098073 20.510000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 3.462140 20.510000 translate 0.035278 -0.035278 scale

start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 3.826207 20.510000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 4.190273 20.510000 translate 0.035278 -0.035278 scale

start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 4.554340 20.510000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 4.918407 20.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 5.282473 20.510000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.646540 20.510000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 6.010607 20.510000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 6.374673 20.510000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 6.738740 20.510000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 7.102807 20.510000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 7.466873 20.510000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto

895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 7.830940 20.510000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 8.195007 20.510000 translate 0.035278 -0.035278 scale
start_of

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.559073 20.510000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 8.923140 20.510000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto

2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 9.287207 20.510000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 9.651273 20.510000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.015340 20.510000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.379407 20.510000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 10.743473 20.510000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.107540 20.510000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 11.471607 20.510000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto

832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 11.835673 20.510000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 12.199740 20.510000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto

1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.563807 20.510000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 12.927873 20.510000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave -4.183260 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave -3.819193 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.455127 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.091060 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -2.726993 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -2.362927 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -1.998860 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -1.634793 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -1.270727 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.906660 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.542593 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -0.178527 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 0.185540 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 0.549607 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 0.913673 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.277740 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.641807 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave 2.005873 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.369940 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.734007 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.098073 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.462140 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.826207 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.190273 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.554340 21.110000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 4.918407 21.110000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.282473 21.110000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 5.646540 21.110000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 6.010607 21.110000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 6.374673 21.110000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 6.738740 21.110000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 7.102807 21.110000 translate 0.035278 -0.035278 scale
start_of
0 2496 moveto

407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_of grestore
gsave 7.466873 21.110000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 7.830940 21.110000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.195007 21.110000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 8.559073 21.110000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 8.923140 21.110000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto

1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 9.287207 21.110000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 9.651273 21.110000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto

832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 10.015340 21.110000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 10.379407 21.110000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 10.743473 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.107540 21.110000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 11.471607 21.110000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 11.835673 21.110000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto

2432 1771 2432 1449 conicto
end_ol grestore
gsave 12.199740 21.110000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.563807 21.110000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 12.927873 21.110000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto

1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 13.291940 21.110000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 13.656007 21.110000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.020073 21.110000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 14.384140 21.110000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 14.748207 21.110000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave -4.183260 21.910000 translate 0.035278 -0.035278 scale
start_of
1600 2688 moveto
1600 1664 lineto
2624 1664 lineto
2624 1280 lineto
1600 1280 lineto
1600 256 lineto
1216 256 lineto
1216 1280 lineto
192 1280 lineto

192 1664 lineto
1216 1664 lineto
1216 2688 lineto
1600 2688 lineto
end_of grestore
gsave -3.819193 21.910000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave -3.455127 21.910000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave -3.091060 21.910000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -2.726993 21.910000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave -2.362927 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto

2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave -1.998860 21.910000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave -1.634793 21.910000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave -1.270727 21.910000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave -0.906660 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave -0.542593 21.910000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave -0.178527 21.910000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 0.185540 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 0.549607 21.910000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 0.913673 21.910000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 1.277740 21.910000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 1.641807 21.910000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 2.005873 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 2.369940 21.910000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 2.734007 21.910000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 3.098073 21.910000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 3.462140 21.910000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 3.826207 21.910000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 4.190273 21.910000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 4.554340 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 4.918407 21.910000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto

1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 5.282473 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.646540 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto

1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 6.010607 21.910000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.374673 21.910000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 6.738740 21.910000 translate 0.035278 -0.035278 scale
start_of

1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 7.102807 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 7.466873 21.910000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto

960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 7.830940 21.910000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 8.195007 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 8.559073 21.910000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.923140 21.910000 translate 0.035278 -0.035278 scale

start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 9.287207 21.910000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 9.651273 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.015340 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 10.379407 21.910000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore

gsave 10.743473 21.910000 translate 0.035278 -0.035278 scale

start_ol

2048 1282 moveto

2048 1752 1880 1996 conicto

1713 2240 1393 2240 conicto

1057 2240 880 1996 conicto

704 1752 704 1282 conicto

704 813 881 566 conicto

1059 320 1397 320 conicto

1713 320 1880 567 conicto

2048 815 2048 1282 conicto

2432 167 moveto

2432 -388 2144 -674 conicto

1856 -960 1297 -960 conicto

1114 -960 913 -927 conicto

713 -895 512 -832 conicto

512 -448 lineto

759 -546 960 -593 conicto

1162 -640 1330 -640 conicto

1706 -640 1877 -460 conicto

2048 -280 2048 111 conicto

2048 128 lineto

2048 396 lineto

1941 196 1755 98 conicto

1570 0 1304 0 conicto

826 0 541 348 conicto

256 696 256 1279 conicto

256 1864 541 2212 conicto

826 2560 1304 2560 conicto

1567 2560 1750 2470 conicto

1933 2381 2048 2195 conicto

2048 2496 lineto

2432 2496 lineto

2432 167 lineto

end_ol grestore

gsave 11.107540 21.910000 translate 0.035278 -0.035278 scale

start_ol

2368 1575 moveto

2368 0 lineto

1984 0 lineto

1984 1575 lineto

1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto

832 1824 832 1436 conicto

832 0 lineto

448 0 lineto

448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 11.471607 21.910000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 11.835673 21.910000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 12.199740 21.910000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 12.563807 21.910000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave 12.927873 21.910000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 13.291940 21.910000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.656007 21.910000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 14.020073 21.910000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 14.384140 21.910000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.748207 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto

2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 15.112273 21.910000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 15.476340 21.910000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 15.840407 21.910000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 16.204473 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 16.568540 21.910000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 16.932607 21.910000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 17.296673 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 17.660740 21.910000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 18.024807 21.910000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 18.388873 21.910000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 18.752940 21.910000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 19.117007 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 19.481073 21.910000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 19.845140 21.910000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.209207 21.910000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 20.573273 21.910000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 20.937340 21.910000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 21.301407 21.910000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 21.665473 21.910000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 22.029540 21.910000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto

1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 22.393607 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 22.757673 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto

1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 23.121740 21.910000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 23.485807 21.910000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 23.849873 21.910000 translate 0.035278 -0.035278 scale
start_ol

1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 24.213940 21.910000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 24.578007 21.910000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto

1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 24.942073 21.910000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 25.306140 21.910000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 25.670207 21.910000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 26.034273 21.910000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto

2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 26.398340 21.910000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 26.762407 21.910000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 27.126473 21.910000 translate 0.035278 -0.035278 scale
start_ol

2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n -17.150000 0.050000 m 8.300000 -7.200000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 6.175000 0.100000 m 8.300000 -7.200000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 37.041700 -0.490000 m 8.300000 -7.200000 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 2.100000 25.550000 m 2.100000 26.950000 l 25.000000 26.950000 l 25.000000 25.550000 l f
0.000000 0.000000 0.000000 srgb
n 2.100000 25.550000 m 2.100000 26.950000 l 25.000000 26.950000 l 25.000000 25.550000 l cp s
gsave 11.221667 26.550000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto

3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 11.678867 26.550000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto

2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 12.195333 26.550000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 12.652533 26.550000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto

1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 13.109733 26.550000 translate 0.035278 -0.035278 scale
start_of
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_of grestore
gsave 13.372200 26.550000 translate 0.035278 -0.035278 scale
start_of
1988 2496 moveto
1642 2496 1461 2257 conicto
1280 2018 1280 1568 conicto
1280 1118 1461 879 conicto
1642 640 1988 640 conicto
2328 640 2508 879 conicto
2688 1118 2688 1568 conicto
2688 2018 2508 2257 conicto
2328 2496 1988 2496 conicto
1988 3200 moveto
2800 3200 3256 2767 conicto

3712 2334 3712 1568 conicto
3712 802 3256 369 conicto
2800 -64 1988 -64 conicto
1173 -64 714 369 conicto
256 802 256 1568 conicto
256 2334 714 2767 conicto
1173 3200 1988 3200 conicto
end_ol grestore
gsave 13.897133 26.550000 translate 0.035278 -0.035278 scale
start_ol
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 14.439000 26.550000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 14.820000 26.550000 translate 0.035278 -0.035278 scale
start_ol
2624 2688 moveto
2624 4352 lineto
3648 4352 lineto
3648 0 lineto
2624 0 lineto
2624 448 lineto
2416 182 2165 59 conicto

1915 -64 1586 -64 conicto
1004 -64 630 393 conicto
256 850 256 1568 conicto
256 2287 630 2743 conicto
1004 3200 1586 3200 conicto
1912 3200 2164 3075 conicto
2416 2950 2624 2688 conicto
1950 640 moveto
2279 640 2451 877 conicto
2624 1115 2624 1567 conicto
2624 2020 2451 2258 conicto
2279 2496 1950 2496 conicto
1626 2496 1453 2258 conicto
1280 2020 1280 1567 conicto
1280 1115 1453 877 conicto
1626 640 1950 640 conicto
end_of grestore
gsave 15.361867 26.550000 translate 0.035278 -0.035278 scale
start_of
2211 640 moveto
2536 640 2708 877 conicto
2880 1115 2880 1567 conicto
2880 2020 2708 2258 conicto
2536 2496 2211 2496 conicto
1885 2496 1710 2256 conicto
1536 2017 1536 1567 conicto
1536 1118 1710 879 conicto
1885 640 2211 640 conicto
1536 2688 moveto
1744 2950 1996 3075 conicto
2248 3200 2577 3200 conicto
3158 3200 3531 2743 conicto
3904 2287 3904 1568 conicto
3904 850 3531 393 conicto
3158 -64 2577 -64 conicto
2248 -64 1996 60 conicto
1744 185 1536 448 conicto
1536 0 lineto
512 0 lineto
512 4352 lineto
1536 4352 lineto
1536 2688 lineto
end_of grestore
1.000000 1.000000 1.000000 srgb
n 2.100000 26.950000 m 2.100000 28.750000 l 25.000000 28.750000 l 25.000000 26.950000 l f
0.000000 0.000000 0.000000 srgb
n 2.100000 26.950000 m 2.100000 28.750000 l 25.000000 28.750000 l 25.000000 26.950000 l cp s
gsave 2.250000 27.650000 translate 0.035278 -0.035278 scale

start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 2.614067 27.650000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 2.978133 27.650000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto

320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 3.342200 27.650000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave 3.706267 27.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 4.070333 27.650000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 4.434400 27.650000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 4.798467 27.650000 translate 0.035278 -0.035278 scale
start_of
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_of grestore
gsave 5.162533 27.650000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto

end_ol grestore
gsave 5.526600 27.650000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 5.890667 27.650000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 6.254733 27.650000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto

2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 6.618800 27.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave 6.982867 27.650000 translate 0.035278 -0.035278 scale

start_ol

576 2496 moveto

1600 2496 lineto

1600 320 lineto

2432 320 lineto

2432 0 lineto

384 0 lineto

384 320 lineto

1216 320 lineto

1216 2176 lineto

576 2176 lineto

576 2496 lineto

1216 3520 moveto

1600 3520 lineto

1600 3008 lineto

1216 3008 lineto

1216 3520 lineto

end_ol grestore

gsave 7.346933 27.650000 translate 0.035278 -0.035278 scale

start_ol

1407 2240 moveto

1092 2240 930 1989 conicto

768 1739 768 1248 conicto

768 759 930 507 conicto

1092 256 1407 256 conicto

1724 256 1886 507 conicto

2048 759 2048 1248 conicto

2048 1739 1886 1989 conicto

1724 2240 1407 2240 conicto

1407 2560 moveto

1935 2560 2215 2223 conicto

2496 1886 2496 1248 conicto

2496 607 2217 271 conicto

1938 -64 1407 -64 conicto

879 -64 599 271 conicto

320 607 320 1248 conicto

320 1886 599 2223 conicto

879 2560 1407 2560 conicto

end_ol grestore

gsave 7.711000 27.650000 translate 0.035278 -0.035278 scale

start_ol

2368 1575 moveto

2368 0 lineto

1984 0 lineto

1984 1575 lineto

1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 8.075067 27.650000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 8.439133 27.650000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.803200 27.650000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 9.167267 27.650000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 9.531333 27.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 2.250000 28.450000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto

end_of grestore
gsave 2.614067 28.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 2.978133 28.450000 translate 0.035278 -0.035278 scale
start_of
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto

448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_of grestore
gsave 3.342200 28.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 3.706267 28.450000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 4.070333 28.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 4.434400 28.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 4.798467 28.450000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 5.162533 28.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.526600 28.450000 translate 0.035278 -0.035278 scale

start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 5.890667 28.450000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 6.254733 28.450000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 6.618800 28.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 6.982867 28.450000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto

2432 2792 lineto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 2.100000 28.750000 m 2.100000 32.150000 l 25.000000 32.150000 l 25.000000 28.750000 l f
0.000000 0.000000 0.000000 srgb
n 2.100000 28.750000 m 2.100000 32.150000 l 25.000000 32.150000 l 25.000000 28.750000 l cp s
gsave 2.250000 29.450000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 2.614067 29.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 2.978133 29.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 3.342200 29.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 3.706267 29.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto

2624 1984 lineto
end_of grestore
gsave 4.070333 29.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 4.434400 29.450000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 4.798467 29.450000 translate 0.035278 -0.035278 scale

start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 5.162533 29.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 5.526600 29.450000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto

1984 3520 lineto
end_of grestore
gsave 5.890667 29.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 6.254733 29.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 6.618800 29.450000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.982867 29.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto

2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 7.346933 29.450000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore

gsave 7.711000 29.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 8.075067 29.450000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 8.439133 29.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 8.803200 29.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 9.167267 29.450000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 9.531333 29.450000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto

256 2496 lineto
end_of grestore
gsave 9.895400 29.450000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 10.259467 29.450000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 10.623533 29.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto

2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 10.987600 29.450000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 11.351667 29.450000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto

960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 11.715733 29.450000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 12.079800 29.450000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 12.443867 29.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.807933 29.450000 translate 0.035278 -0.035278 scale
start_ol

512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 13.172000 29.450000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 13.536067 29.450000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto

448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_of grestore
gsave 13.900133 29.450000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 14.264200 29.450000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto

1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 14.628267 29.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 14.992333 29.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto

833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 15.356400 29.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 15.720467 29.450000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 16.084533 29.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 16.448600 29.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 16.812667 29.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto

1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 17.176733 29.450000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 17.540800 29.450000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 17.904867 29.450000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 18.268933 29.450000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto

2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 18.633000 29.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 18.997067 29.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 19.361133 29.450000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 19.725200 29.450000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 20.089267 29.450000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 20.453333 29.450000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto

2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 20.817400 29.450000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 21.181467 29.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto

832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 21.545533 29.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 21.909600 29.450000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto

192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 22.273667 29.450000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.637733 29.450000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.001800 29.450000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 23.365867 29.450000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 23.729933 29.450000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 24.094000 29.450000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto

1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 24.458067 29.450000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 24.822133 29.450000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 25.186200 29.450000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 2.250000 30.250000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 2.614067 30.250000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 2.978133 30.250000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 3.342200 30.250000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto

879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 3.706267 30.250000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 4.070333 30.250000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto

end_of grestore
gsave 4.434400 30.250000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 4.798467 30.250000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 5.162533 30.250000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.526600 30.250000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 5.890667 30.250000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 6.254733 30.250000 translate 0.035278 -0.035278 scale
start_of
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto

1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_of grestore
gsave 6.618800 30.250000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 6.982867 30.250000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 7.346933 30.250000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 7.711000 30.250000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.075067 30.250000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto

1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 8.439133 30.250000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 8.803200 30.250000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 9.167267 30.250000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 9.531333 30.250000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 9.895400 30.250000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto

1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 10.259467 30.250000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 10.623533 30.250000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 10.987600 30.250000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.351667 30.250000 translate 0.035278 -0.035278 scale
start_of
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_of grestore
gsave 11.715733 30.250000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 12.079800 30.250000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto

1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 12.443867 30.250000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
gsave 12.807933 30.250000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 13.172000 30.250000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 13.536067 30.250000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto

1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 13.900133 30.250000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 14.264200 30.250000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.628267 30.250000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 14.992333 30.250000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto

796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.356400 30.250000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 15.720467 30.250000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto

1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 16.084533 30.250000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 16.448600 30.250000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto

0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 16.812667 30.250000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 17.176733 30.250000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 2.250000 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.614067 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.978133 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.342200 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.706267 30.850000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 4.070333 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.434400 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.798467 30.850000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 5.162533 30.850000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto

744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 5.526600 30.850000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 5.890667 30.850000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 6.254733 30.850000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto

688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 6.618800 30.850000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 6.982867 30.850000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto

1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 7.346933 30.850000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 7.711000 30.850000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto

1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 8.075067 30.850000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 8.439133 30.850000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto

1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 8.803200 30.850000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.167267 30.850000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 9.531333 30.850000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 9.895400 30.850000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 10.259467 30.850000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 10.623533 30.850000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto

833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 10.987600 30.850000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 11.351667 30.850000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 11.715733 30.850000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 12.079800 30.850000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 12.443867 30.850000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 12.807933 30.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.172000 30.850000 translate 0.035278 -0.035278 scale
start_ol

576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.536067 30.850000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 13.900133 30.850000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 2.250000 31.650000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 2.614067 31.650000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 2.978133 31.650000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 3.342200 31.650000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 3.706267 31.650000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 4.070333 31.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 4.434400 31.650000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 4.798467 31.650000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 5.162533 31.650000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 5.526600 31.650000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.890667 31.650000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.254733 31.650000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto

1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 6.618800 31.650000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave 6.982867 31.650000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 7.346933 31.650000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto

2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 7.711000 31.650000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 8.075067 31.650000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.439133 31.650000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 8.803200 31.650000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 9.167267 31.650000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto

320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 9.531333 31.650000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 9.895400 31.650000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto

end_of grestore
gsave 10.259467 31.650000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 10.623533 31.650000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 10.987600 31.650000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto

end_of grestore
gsave 11.351667 31.650000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.715733 31.650000 translate 0.035278 -0.035278 scale
start_of
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_of grestore
gsave 12.079800 31.650000 translate 0.035278 -0.035278 scale
start_of

1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 12.443867 31.650000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 12.807933 31.650000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 13.172000 31.650000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 13.536067 31.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto

2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 13.900133 31.650000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 14.264200 31.650000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 14.628267 31.650000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 14.992333 31.650000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 15.356400 31.650000 translate 0.035278 -0.035278 scale
start_ol

1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.720467 31.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 16.084533 31.650000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 16.448600 31.650000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto

640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 16.812667 31.650000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 17.176733 31.650000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 17.540800 31.650000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto

1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 17.904867 31.650000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 18.268933 31.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.633000 31.650000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 18.997067 31.650000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 19.361133 31.650000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 2.300000 35.300000 m 2.300000 36.700000 l 21.800000 36.700000 l 21.800000 35.300000 l f
0.000000 0.000000 0.000000 srgb
n 2.300000 35.300000 m 2.300000 36.700000 l 21.800000 36.700000 l 21.800000 35.300000 l cp s
gsave 8.231533 36.300000 translate 0.035278 -0.035278 scale
start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto

1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 8.688733 36.300000 translate 0.035278 -0.035278 scale
start_of
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto

1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 9.205200 36.300000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 9.662400 36.300000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto

3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 10.119600 36.300000 translate 0.035278 -0.035278 scale
start_of
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_of grestore
gsave 10.382067 36.300000 translate 0.035278 -0.035278 scale
start_of
1988 2496 moveto
1642 2496 1461 2257 conicto
1280 2018 1280 1568 conicto
1280 1118 1461 879 conicto
1642 640 1988 640 conicto
2328 640 2508 879 conicto
2688 1118 2688 1568 conicto
2688 2018 2508 2257 conicto
2328 2496 1988 2496 conicto
1988 3200 moveto
2800 3200 3256 2767 conicto
3712 2334 3712 1568 conicto
3712 802 3256 369 conicto
2800 -64 1988 -64 conicto

1173 -64 714 369 conicto
256 802 256 1568 conicto
256 2334 714 2767 conicto
1173 3200 1988 3200 conicto
end_ol grestore
gsave 10.907000 36.300000 translate 0.035278 -0.035278 scale
start_ol
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 11.448867 36.300000 translate 0.035278 -0.035278 scale
start_ol
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_ol grestore
gsave 11.829867 36.300000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto

1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
gsave 12.193933 36.300000 translate 0.035278 -0.035278 scale
start_ol
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_ol grestore
gsave 12.566467 36.300000 translate 0.035278 -0.035278 scale
start_ol
1911 1472 moveto
1597 1472 1438 1356 conicto
1280 1241 1280 1016 conicto
1280 809 1407 692 conicto
1535 576 1762 576 conicto
2045 576 2238 796 conicto
2432 1017 2432 1347 conicto
2432 1472 lineto
1911 1472 lineto
3456 1836 moveto
3456 0 lineto
2432 0 lineto
2432 512 lineto
2229 211 1975 73 conicto
1721 -64 1358 -64 conicto
867 -64 561 223 conicto
256 511 256 969 conicto
256 1527 638 1787 conicto

1021 2048 1840 2048 conicto
2432 2048 lineto
2432 2119 lineto
2432 2347 2241 2453 conicto
2050 2560 1646 2560 conicto
1318 2560 1036 2496 conicto
754 2432 512 2304 conicto
512 3072 lineto
842 3134 1174 3167 conicto
1507 3200 1840 3200 conicto
2697 3200 3076 2879 conicto
3456 2559 3456 1836 conicto
end_of grestore
gsave 13.082933 36.300000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave 13.624800 36.300000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto

3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 14.082000 36.300000 translate 0.035278 -0.035278 scale
start_ol
1536 448 moveto
1536 -1216 lineto
512 -1216 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1744 2950 1996 3075 conicto
2248 3200 2577 3200 conicto
3158 3200 3531 2743 conicto
3904 2287 3904 1568 conicto
3904 850 3531 393 conicto
3158 -64 2577 -64 conicto
2248 -64 1996 60 conicto
1744 185 1536 448 conicto
2211 2496 moveto
1885 2496 1710 2256 conicto
1536 2017 1536 1567 conicto
1536 1118 1710 879 conicto
1885 640 2211 640 conicto
2536 640 2708 877 conicto
2880 1115 2880 1567 conicto
2880 2020 2708 2258 conicto
2536 2496 2211 2496 conicto
end_ol grestore
gsave 14.623867 36.300000 translate 0.035278 -0.035278 scale
start_ol

1988 2496 moveto
1642 2496 1461 2257 conicto
1280 2018 1280 1568 conicto
1280 1118 1461 879 conicto
1642 640 1988 640 conicto
2328 640 2508 879 conicto
2688 1118 2688 1568 conicto
2688 2018 2508 2257 conicto
2328 2496 1988 2496 conicto
1988 3200 moveto
2800 3200 3256 2767 conicto
3712 2334 3712 1568 conicto
3712 802 3256 369 conicto
2800 -64 1988 -64 conicto
1173 -64 714 369 conicto
256 802 256 1568 conicto
256 2334 714 2767 conicto
1173 3200 1988 3200 conicto
end_of grestore
gsave 15.148800 36.300000 translate 0.035278 -0.035278 scale
start_of
2880 2240 moveto
2747 2306 2615 2337 conicto
2483 2368 2350 2368 conicto
1958 2368 1747 2122 conicto
1536 1876 1536 1418 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2624 lineto
1732 2924 1985 3062 conicto
2239 3200 2594 3200 conicto
2644 3200 2703 3196 conicto
2763 3193 2877 3181 conicto
2880 2240 lineto
end_of grestore
gsave 15.521333 36.300000 translate 0.035278 -0.035278 scale
start_of
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto

2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 2.300000 36.700000 m 2.300000 37.700000 l 21.800000 37.700000 l 21.800000 36.700000 l f
0.000000 0.000000 0.000000 srgb
n 2.300000 36.700000 m 2.300000 37.700000 l 21.800000 37.700000 l 21.800000 36.700000 l cp s
gsave 2.450000 37.400000 translate 0.035278 -0.035278 scale
start_ol
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_ol grestore
gsave 2.814067 37.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 3.178133 37.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto

2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 3.542200 37.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 3.906267 37.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 4.270333 37.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 4.634400 37.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 4.998467 37.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto

1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 5.362533 37.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 5.726600 37.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.090667 37.400000 translate 0.035278 -0.035278 scale
start_of

2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 6.454733 37.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 6.818800 37.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 7.182867 37.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 7.546933 37.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 7.911000 37.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.275067 37.400000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto

1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 8.639133 37.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 9.003200 37.400000 translate 0.035278 -0.035278 scale

start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 9.367267 37.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.731333 37.400000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto

1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 10.095400 37.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 10.459467 37.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave 10.823533 37.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 11.187600 37.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 11.551667 37.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 11.915733 37.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave 12.279800 37.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 12.643867 37.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto

940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 13.007933 37.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 13.372000 37.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto

2624 1984 lineto
end_of grestore
gsave 13.736067 37.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 14.100133 37.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.464200 37.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto

2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 14.828267 37.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 15.192333 37.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto

2624 1984 lineto
 end_of grestore
 gsave 15.556400 37.400000 translate 0.035278 -0.035278 scale
 start_of
 2304 -768 moveto
 2304 -1088 lineto
 0 -1088 lineto
 0 -768 lineto
 2304 -768 lineto
 end_of grestore
 gsave 15.920467 37.400000 translate 0.035278 -0.035278 scale
 start_of
 1344 3200 moveto
 1344 2496 lineto
 2304 2496 lineto
 2304 2176 lineto
 1344 2176 lineto
 1344 816 lineto
 1344 539 1451 429 conicto
 1559 320 1828 320 conicto
 2304 320 lineto
 2304 0 lineto
 1787 0 lineto
 1333 0 1146 184 conicto
 960 368 960 816 conicto
 960 2176 lineto
 256 2176 lineto
 256 2496 lineto
 960 2496 lineto
 960 3200 lineto
 1344 3200 lineto
 end_of grestore
 1.000000 1.000000 1.000000 srgb
 n 2.300000 37.700000 m 2.300000 41.100000 l 21.800000 41.100000 l 21.800000 37.700000 l f
 0.000000 0.000000 0.000000 srgb
 n 2.300000 37.700000 m 2.300000 41.100000 l 21.800000 41.100000 l 21.800000 37.700000 l cp s
 gsave 2.450000 38.400000 translate 0.035278 -0.035278 scale
 start_of
 832 1472 moveto
 1984 1472 lineto
 1984 1088 lineto
 832 1088 lineto
 832 1472 lineto
 end_of grestore
 gsave 2.814067 38.400000 translate 0.035278 -0.035278 scale
 start_of
 2240 2432 moveto
 2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 3.178133 38.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 3.542200 38.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 3.906267 38.400000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto

1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 4.270333 38.400000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 4.634400 38.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 4.998467 38.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 5.362533 38.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.726600 38.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 6.090667 38.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto

1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 6.454733 38.400000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 6.818800 38.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.182867 38.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 7.546933 38.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 7.911000 38.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 8.275067 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 8.639133 38.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 9.003200 38.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.367267 38.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto

832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 9.731333 38.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 10.095400 38.400000 translate 0.035278 -0.035278 scale
start_of

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 10.459467 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_of grestore
gsave 10.823533 38.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 11.187600 38.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto

end_of grestore
gsave 11.551667 38.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 11.915733 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.279800 38.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave 12.643867 38.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto

end_of grestore
gsave 13.007933 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 13.372000 38.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 13.736067 38.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.100133 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 14.464200 38.400000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 14.828267 38.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 15.192333 38.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
gsave 15.556400 38.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.920467 38.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 16.284533 38.400000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 16.648600 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 17.012667 38.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 17.376733 38.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 17.740800 38.400000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto

448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 18.104867 38.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 18.468933 38.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 18.833000 38.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.197067 38.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 19.561133 38.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.925200 38.400000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 20.289267 38.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto

879 2560 1407 2560 conicto
end_of grestore
gsave 20.653333 38.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 21.017400 38.400000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 21.381467 38.400000 translate 0.035278 -0.035278 scale

start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 21.745533 38.400000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 2.450000 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.814067 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.178133 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.542200 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.906267 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.270333 39.000000 translate 0.035278 -0.035278 scale
start_ol

end_ol grestore
gsave 4.634400 39.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 4.998467 39.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 5.362533 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.726600 39.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 6.090667 39.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 6.454733 39.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.818800 39.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 7.182867 39.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 7.546933 39.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 7.911000 39.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 8.275067 39.000000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 8.639133 39.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 9.003200 39.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 9.367267 39.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.731333 39.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 10.095400 39.000000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto

1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 10.459467 39.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.823533 39.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 11.187600 39.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto

2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 11.551667 39.000000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 11.915733 39.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 12.279800 39.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.643867 39.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.007933 39.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.372000 39.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.736067 39.000000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 14.100133 39.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto

688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 14.464200 39.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.828267 39.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto

960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 2.450000 39.800000 translate 0.035278 -0.035278 scale
start_of
832 1472 moveto
1984 1472 lineto
1984 1088 lineto
832 1088 lineto
832 1472 lineto
end_of grestore
gsave 2.814067 39.800000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 3.178133 39.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 3.542200 39.800000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 3.906267 39.800000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 4.270333 39.800000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto

1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 4.634400 39.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 4.998467 39.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 5.362533 39.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave 5.726600 39.800000 translate 0.035278 -0.035278 scale

start_ol

2240 2432 moveto

2240 2048 lineto

2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto

896 2059 896 1873 conicto

896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto

1757 1429 lineto

2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto

2368 359 2100 147 conicto

1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto

753 0 512 64 conicto

512 512 lineto

752 385 971 320 conicto

1191 256 1387 256 conicto

1672 256 1828 371 conicto

1984 487 1984 693 conicto

1984 991 1380 1106 conicto

1360 1110 lineto

1190 1143 lineto

837 1211 674 1373 conicto

512 1536 512 1817 conicto

512 2173 761 2366 conicto

1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto

end_ol grestore

gsave 6.090667 39.800000 translate 0.035278 -0.035278 scale

start_ol

1088 2368 moveto

1664 2368 lineto

1664 1664 lineto

1088 1664 lineto

1088 2368 lineto

1088 704 moveto

1664 704 lineto

1664 0 lineto

1088 0 lineto

1088 704 lineto

end_ol grestore

gsave 6.454733 39.800000 translate 0.035278 -0.035278 scale

start_ol

2048 1282 moveto

2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 6.818800 39.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto

1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.182867 39.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 7.546933 39.800000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 7.911000 39.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 8.275067 39.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 8.639133 39.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 9.003200 39.800000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 9.367267 39.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto

2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 9.731333 39.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 10.095400 39.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto

753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.459467 39.800000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 10.823533 39.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto

1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 11.187600 39.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.551667 39.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 11.915733 39.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.279800 39.800000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 12.643867 39.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 13.007933 39.800000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 13.372000 39.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 13.736067 39.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 14.100133 39.800000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 14.464200 39.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 14.828267 39.800000 translate 0.035278 -0.035278 scale
start_ol

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 15.192333 39.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 15.556400 39.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.920467 39.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto

2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 16.284533 39.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto

724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 16.648600 39.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 17.012667 39.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 17.376733 39.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 17.740800 39.800000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 18.104867 39.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto

768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 18.468933 39.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 18.833000 39.800000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto

826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 19.197067 39.800000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 19.561133 39.800000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 2.450000 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave 2.814067 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.178133 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.542200 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 3.906267 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.270333 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 4.634400 40.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 4.998467 40.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 5.362533 40.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 5.726600 40.400000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 6.090667 40.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto

2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 6.454733 40.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.818800 40.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto

1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 7.182867 40.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 7.546933 40.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 7.911000 40.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 8.275067 40.400000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto

2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 8.639133 40.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 9.003200 40.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto

end_of grestore
gsave 9.367267 40.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.731333 40.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 10.095400 40.400000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 10.459467 40.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.823533 40.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 11.187600 40.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 11.551667 40.400000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 11.915733 40.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto

1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 12.279800 40.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.643867 40.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 13.007933 40.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.372000 40.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.736067 40.400000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto

886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 14.100133 40.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 14.464200 40.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 14.828267 40.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n -2.200000 29.600000 m 2.100000 26.250000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n -2.200000 29.600000 m 2.300000 36.000000 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 32.400000 32.100000 m 49.150000 32.100000 l 49.750000 32.700000 l 49.750000 35.400000 l 32.400000
35.400000 l ef
0.000000 0.000000 0.000000 srgb
n 32.400000 32.100000 m 49.150000 32.100000 l 49.750000 32.700000 l 49.750000 35.400000 l 32.400000
35.400000 l cp s
0.050000 slw
n 49.150000 32.100000 m 49.150000 32.700000 l 49.750000 32.700000 l s
gsave 32.750000 33.350000 translate 0.035278 -0.035278 scale
start_of
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
128 2944 lineto
128 3328 lineto

end_of grestore
gsave 33.114067 33.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 33.478133 33.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 33.842200 33.350000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 34.206267 33.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto

1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 34.570333 33.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 34.934400 33.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore

gsave 35.298467 33.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 35.662533 33.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 36.026600 33.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 36.390667 33.350000 translate 0.035278 -0.035278 scale

start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 36.754733 33.350000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto

1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 37.118800 33.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 37.482867 33.350000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto

833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 37.846933 33.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 38.211000 33.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto

1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 38.575067 33.350000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 38.939133 33.350000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 39.303200 33.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 39.667267 33.350000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto

1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 40.031333 33.350000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 40.395400 33.350000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 40.759467 33.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 41.123533 33.350000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto

1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 41.487600 33.350000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 41.851667 33.350000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 42.215733 33.350000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 42.579800 33.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 42.943867 33.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 43.307933 33.350000 translate 0.035278 -0.035278 scale
start_ol

end_of grestore
gsave 43.672000 33.350000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 44.036067 33.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 44.400133 33.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 44.764200 33.350000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 45.128267 33.350000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 45.492333 33.350000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 32.750000 34.150000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave 33.114067 34.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 33.478133 34.150000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 33.842200 34.150000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 34.206267 34.150000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto

2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 34.570333 34.150000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 34.934400 34.150000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 35.298467 34.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 35.662533 34.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 36.026600 34.150000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto

2624 2496 lineto
1962 784 lineto
end_of grestore
gsave 36.390667 34.150000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 36.754733 34.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 37.118800 34.150000 translate 0.035278 -0.035278 scale
start_ol
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 37.482867 34.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 37.846933 34.150000 translate 0.035278 -0.035278 scale
start_ol
320 3328 moveto
768 3328 lineto
768 1984 lineto
2048 1984 lineto
2048 3328 lineto
2496 3328 lineto
2496 0 lineto
2048 0 lineto
2048 1600 lineto
768 1600 lineto
768 0 lineto
320 0 lineto
320 3328 lineto
end_ol grestore
gsave 38.211000 34.150000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto

2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 38.575067 34.150000 translate 0.035278 -0.035278 scale
start_ol
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_ol grestore
gsave 38.939133 34.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto

2112 1472 lineto
end_of grestore
gsave 39.303200 34.150000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 39.667267 34.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 40.031333 34.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto

832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 40.395400 34.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 40.759467 34.150000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 41.123533 34.150000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto

2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 41.487600 34.150000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 41.851667 34.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 42.215733 34.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 42.579800 34.150000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 42.943867 34.150000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 43.307933 34.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 43.672000 34.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 44.036067 34.150000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 44.400133 34.150000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto

2368 3520 lineto
end_of grestore
gsave 44.764200 34.150000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 45.128267 34.150000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 45.492333 34.150000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto

end_of_grestore
gsave 45.856400 34.150000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of_grestore
gsave 46.220467 34.150000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto

256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 46.584533 34.150000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 46.948600 34.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 47.312667 34.150000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 47.676733 34.150000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 48.040800 34.150000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 48.404867 34.150000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 48.768933 34.150000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 49.133000 34.150000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 32.750000 34.950000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto

2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 33.114067 34.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 33.478133 34.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 33.842200 34.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 34.206267 34.950000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 34.570333 34.950000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto

1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 34.934400 34.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 35.298467 34.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 35.662533 34.950000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 36.026600 34.950000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto

2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 36.390667 34.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 36.754733 34.950000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 37.118800 34.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 37.482867 34.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 37.846933 34.950000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto

2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 38.211000 34.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto

2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 38.575067 34.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 38.939133 34.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto

2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 39.303200 34.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 39.667267 34.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto

2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 40.031333 34.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 40.395400 34.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 40.759467 34.950000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 41.123533 34.950000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto

320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 41.487600 34.950000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave 41.851667 34.950000 translate 0.035278 -0.035278 scale
start_ol
1344 -75 moveto
1344 2176 lineto
640 2176 lineto
640 2496 lineto
1728 2496 lineto
1728 -75 lineto
1728 -500 1535 -730 conicto
1343 -960 989 -960 conicto
384 -960 lineto
384 -640 lineto
944 -640 lineto
1144 -640 1244 -498 conicto
1344 -357 1344 -75 conicto
1344 3520 moveto
1728 3520 lineto
1728 3008 lineto
1344 3008 lineto

1344 3520 lineto
end_of grestore
gsave 42.215733 34.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 42.579800 34.950000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto

2368 64 lineto
end_of grestore
gsave 42.943867 34.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 43.307933 34.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 43.672000 34.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 44.036067 34.950000 translate 0.035278 -0.035278 scale
start_ol
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_ol grestore
gsave 44.400133 34.950000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 44.764200 34.950000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 45.128267 34.950000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 45.492333 34.950000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 45.856400 34.950000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto

768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 46.220467 34.950000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 46.584533 34.950000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto

688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 46.948600 34.950000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 47.312667 34.950000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto

2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 47.676733 34.950000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 48.040800 34.950000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 48.404867 34.950000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 48.768933 34.950000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 49.133000 34.950000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 49.497067 34.950000 translate 0.035278 -0.035278 scale
start_of
1088 704 moveto

1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 21.800000 37.200000 m 32.400000 33.750000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 25.000000 30.050000 m 32.400000 33.750000 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 41.800100 -11.950000 m 61.300100 -11.950000 l 61.900100 -11.350000 l 61.900100 -7.850000 l 41.800100 -
7.850000 l ef
0.000000 0.000000 0.000000 srgb
n 41.800100 -11.950000 m 61.300100 -11.950000 l 61.900100 -11.350000 l 61.900100 -7.850000 l 41.800100 -
7.850000 l cp s
0.050000 slw
n 61.300100 -11.950000 m 61.300100 -11.350000 l 61.900100 -11.350000 l s
gsave 42.150100 -10.700000 translate 0.035278 -0.035278 scale
start_of
2304 3200 moveto
2304 2752 lineto
2096 2879 1887 2943 conicto
1679 3008 1466 3008 conicto
1143 3008 955 2859 conicto
768 2711 768 2459 conicto
768 2237 889 2120 conicto
1011 2004 1345 1926 conicto
1581 1871 lineto
2059 1763 2277 1531 conicto
2496 1299 2496 900 conicto
2496 430 2199 183 conicto
1903 -64 1337 -64 conicto
1100 -64 862 -16 conicto
624 32 384 128 conicto
384 576 lineto
640 444 868 382 conicto
1097 320 1329 320 conicto
1670 320 1859 467 conicto
2048 614 2048 878 conicto
2048 1118 1917 1244 conicto

1787 1370 1463 1439 conicto
1222 1496 lineto
748 1602 534 1817 conicto
320 2032 320 2394 conicto
320 2847 625 3119 conicto
931 3392 1438 3392 conicto
1633 3392 1849 3343 conicto
2066 3295 2304 3200 conicto
end_of grestore
gsave 42.514167 -10.700000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 42.878233 -10.700000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore

gsave 43.242300 -10.700000 translate 0.035278 -0.035278 scale

start_ol

2368 64 moveto

2204 0 2030 -32 conicto

1856 -64 1674 -64 conicto

1098 -64 773 284 conicto

448 632 448 1248 conicto

448 1864 773 2212 conicto

1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto

2196 2497 2368 2432 conicto

2368 1984 lineto

2208 2119 2047 2179 conicto

1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto

896 1726 896 1248 conicto

896 772 1101 514 conicto

1306 256 1683 256 conicto

1893 256 2059 318 conicto

2226 381 2368 512 conicto

2368 64 lineto

end_ol grestore

gsave 43.606367 -10.700000 translate 0.035278 -0.035278 scale

start_ol

2496 1352 moveto

2496 1152 lineto

688 1152 lineto

688 1139 lineto

688 717 901 486 conicto

1114 256 1501 256 conicto

1697 256 1911 319 conicto

2125 383 2368 512 conicto

2368 128 lineto

2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto

912 -64 584 285 conicto

256 634 256 1248 conicto

256 1846 582 2203 conicto

908 2560 1452 2560 conicto

1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto

2112 1472 moveto

2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto

741 1832 704 1470 conicto

2112 1472 lineto

end_ol grestore

gsave 43.970433 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 44.334500 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2496 292 moveto
2315 116 2088 26 conicto
1861 -64 1598 -64 conicto
963 -64 609 390 conicto
256 844 256 1663 conicto
256 2480 611 2936 conicto
967 3392 1600 3392 conicto
1808 3392 1999 3329 conicto
2190 3266 2368 3136 conicto
2368 2688 lineto
2186 2852 1995 2930 conicto
1804 3008 1590 3008 conicto
1148 3008 926 2672 conicto
704 2337 704 1663 conicto
704 979 918 649 conicto
1133 320 1579 320 conicto
1728 320 1842 354 conicto
1956 389 2048 461 conicto
2048 1344 lineto
1536 1344 lineto
1536 1728 lineto
2496 1728 lineto
2496 292 lineto
end_ol grestore
gsave 44.698567 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave 45.062633 -10.700000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 45.426700 -10.700000 translate 0.035278 -0.035278 scale
start_of
128 3328 moveto
2624 3328 lineto
2624 2944 lineto
1600 2944 lineto
1600 0 lineto
1152 0 lineto
1152 2944 lineto
128 2944 lineto
128 3328 lineto
end_of grestore
gsave 45.790767 -10.700000 translate 0.035278 -0.035278 scale
start_of
512 3328 moveto
960 3328 lineto
960 384 lineto
2560 384 lineto
2560 0 lineto
512 0 lineto
512 3328 lineto
end_of grestore
gsave 46.154833 -10.700000 translate 0.035278 -0.035278 scale
start_of
2304 3200 moveto
2304 2752 lineto
2096 2879 1887 2943 conicto

1679 3008 1466 3008 conicto
1143 3008 955 2859 conicto
768 2711 768 2459 conicto
768 2237 889 2120 conicto
1011 2004 1345 1926 conicto
1581 1871 lineto
2059 1763 2277 1531 conicto
2496 1299 2496 900 conicto
2496 430 2199 183 conicto
1903 -64 1337 -64 conicto
1100 -64 862 -16 conicto
624 32 384 128 conicto
384 576 lineto
640 444 868 382 conicto
1097 320 1329 320 conicto
1670 320 1859 467 conicto
2048 614 2048 878 conicto
2048 1118 1917 1244 conicto
1787 1370 1463 1439 conicto
1222 1496 lineto
748 1602 534 1817 conicto
320 2032 320 2394 conicto
320 2847 625 3119 conicto
931 3392 1438 3392 conicto
1633 3392 1849 3343 conicto
2066 3295 2304 3200 conicto
end_ol grestore
gsave 46.518900 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 46.882967 -10.700000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto

end_of grestore
gsave 47.247033 -10.700000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 47.611100 -10.700000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 47.975167 -10.700000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 48.339233 -10.700000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 48.703300 -10.700000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto

2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 49.067367 -10.700000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 49.431433 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 49.795500 -10.700000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 50.159567 -10.700000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 50.523633 -10.700000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 50.887700 -10.700000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 51.251767 -10.700000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 51.615833 -10.700000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto

1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 51.979900 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 52.343967 -10.700000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 52.708033 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto

832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 53.072100 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 53.436167 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2432 192 moveto
2258 64 2075 0 conicto
1892 -64 1686 -64 conicto
1037 -64 678 388 conicto
320 841 320 1663 conicto
320 2480 681 2936 conicto
1042 3392 1686 3392 conicto
1892 3392 2075 3328 conicto
2258 3264 2432 3136 conicto
2432 2688 lineto
2262 2844 2066 2926 conicto
1870 3008 1673 3008 conicto
1219 3008 993 2673 conicto
768 2339 768 1663 conicto
768 989 993 654 conicto
1219 320 1673 320 conicto
1875 320 2069 402 conicto
2264 484 2432 640 conicto
2432 192 lineto
end_ol grestore
gsave 53.800233 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 54.164300 -10.700000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto

2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 54.528367 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_ol grestore
gsave 54.892433 -10.700000 translate 0.035278 -0.035278 scale
start_ol
1344 -75 moveto
1344 2176 lineto
640 2176 lineto
640 2496 lineto
1728 2496 lineto
1728 -75 lineto
1728 -500 1535 -730 conicto
1343 -960 989 -960 conicto

384 -960 lineto
384 -640 lineto
944 -640 lineto
1144 -640 1244 -498 conicto
1344 -357 1344 -75 conicto
1344 3520 moveto
1728 3520 lineto
1728 3008 lineto
1344 3008 lineto
1344 3520 lineto
end_of grestore
gsave 55.256500 -10.700000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 55.620567 -10.700000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto

2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 55.984633 -10.700000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 56.348700 -10.700000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 56.712767 -10.700000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 57.076833 -10.700000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto

512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 57.440900 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 57.804967 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 58.169033 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 58.533100 -10.700000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 58.897167 -10.700000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore

gsave 59.261233 -10.700000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 59.625300 -10.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 42.150100 -9.900000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto

2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 42.514167 -9.900000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 42.878233 -9.900000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 43.242300 -9.900000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 43.606367 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 43.970433 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 44.334500 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 44.698567 -9.900000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 45.062633 -9.900000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 45.426700 -9.900000 translate 0.035278 -0.035278 scale
start_of
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto

1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 45.790767 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 46.154833 -9.900000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 46.518900 -9.900000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto

2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 46.882967 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 47.247033 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 47.611100 -9.900000 translate 0.035278 -0.035278 scale

start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 47.975167 -9.900000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto

1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 48.339233 -9.900000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 48.703300 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto

832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 49.067367 -9.900000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 49.431433 -9.900000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 49.795500 -9.900000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 50.159567 -9.900000 translate 0.035278 -0.035278 scale
start_of
1088 704 moveto

1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 50.523633 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 50.887700 -9.900000 translate 0.035278 -0.035278 scale
start_ol
320 3328 moveto
768 3328 lineto
768 1984 lineto
2048 1984 lineto
2048 3328 lineto
2496 3328 lineto
2496 0 lineto
2048 0 lineto
2048 1600 lineto
768 1600 lineto
768 0 lineto
320 0 lineto
320 3328 lineto
end_ol grestore
gsave 51.251767 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto

2112 1472 lineto
end_of grestore
gsave 51.615833 -9.900000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 51.979900 -9.900000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 52.343967 -9.900000 translate 0.035278 -0.035278 scale
start_of

end_ol grestore
gsave 52.708033 -9.900000 translate 0.035278 -0.035278 scale
start_ol
0 2496 moveto
407 2496 lineto
841 469 lineto
1198 1728 lineto
1550 1728 lineto
1911 469 lineto
2346 2496 lineto
2752 2496 lineto
2168 0 lineto
1775 0 lineto
1375 1339 lineto
978 0 lineto
585 0 lineto
0 2496 lineto
end_ol grestore
gsave 53.072100 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 53.436167 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 53.800233 -9.900000 translate 0.035278 -0.035278 scale

start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 54.164300 -9.900000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 54.528367 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto

1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 54.892433 -9.900000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 55.256500 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 55.620567 -9.900000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 55.984633 -9.900000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 56.348700 -9.900000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 56.712767 -9.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 57.076833 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_of grestore
gsave 57.440900 -9.900000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 57.804967 -9.900000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 58.169033 -9.900000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto

832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 58.533100 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 58.897167 -9.900000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 59.261233 -9.900000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 59.625300 -9.900000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore

gsave 59.989367 -9.900000 translate 0.035278 -0.035278 scale

start_ol

2496 1352 moveto

2496 1152 lineto

688 1152 lineto

688 1139 lineto

688 717 901 486 conicto

1114 256 1501 256 conicto

1697 256 1911 319 conicto

2125 383 2368 512 conicto

2368 128 lineto

2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto

912 -64 584 285 conicto

256 634 256 1248 conicto

256 1846 582 2203 conicto

908 2560 1452 2560 conicto

1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto

2112 1472 moveto

2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto

741 1832 704 1470 conicto

2112 1472 lineto

end_ol grestore

gsave 60.353433 -9.900000 translate 0.035278 -0.035278 scale

start_ol

2240 2432 moveto

2240 2048 lineto

2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto

896 2059 896 1873 conicto

896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto

1757 1429 lineto

2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto

2368 359 2100 147 conicto

1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto

753 0 512 64 conicto

512 512 lineto

752 385 971 320 conicto

1191 256 1387 256 conicto

1672 256 1828 371 conicto

1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 42.150100 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 42.514167 -9.100000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 42.878233 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 43.242300 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 43.606367 -9.100000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 43.970433 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 44.334500 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 44.698567 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 45.062633 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 45.426700 -9.100000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto

832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 45.790767 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 46.154833 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto

2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 46.518900 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 46.882967 -9.100000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 47.247033 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 47.611100 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 47.975167 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 48.339233 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 48.703300 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 49.067367 -9.100000 translate 0.035278 -0.035278 scale
start_of
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 49.431433 -9.100000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto

796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 49.795500 -9.100000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 50.159567 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto

192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 50.523633 -9.100000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 50.887700 -9.100000 translate 0.035278 -0.035278 scale
start_of
2176 1248 moveto
2176 1739 2007 1989 conicto
1838 2240 1507 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto

832 761 1003 508 conicto
1175 256 1507 256 conicto
1838 256 2007 506 conicto
2176 756 2176 1248 conicto
832 2207 moveto
939 2378 1128 2469 conicto
1317 2560 1567 2560 conicto
2058 2560 2341 2213 conicto
2624 1866 2624 1257 conicto
2624 639 2340 287 conicto
2056 -64 1561 -64 conicto
1317 -64 1131 26 conicto
945 117 832 288 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2207 lineto
end_of grestore
gsave 51.251767 -9.100000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 51.615833 -9.100000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 51.979900 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 52.343967 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 52.708033 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto

1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 53.072100 -9.100000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 53.436167 -9.100000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 53.800233 -9.100000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 54.164300 -9.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 54.528367 -9.100000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 54.892433 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_ol grestore
gsave 55.256500 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 55.620567 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 55.984633 -9.100000 translate 0.035278 -0.035278 scale
start_ol

320 3328 moveto
906 3328 lineto
2048 589 lineto
2048 3328 lineto
2496 3328 lineto
2496 0 lineto
1910 0 lineto
768 2739 lineto
768 0 lineto
320 0 lineto
320 3328 lineto
end_ol grestore
gsave 56.348700 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 56.712767 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 57.076833 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 57.440900 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 57.804967 -9.100000 translate 0.035278 -0.035278 scale
start_ol

1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 58.169033 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 58.533100 -9.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 58.897167 -9.100000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto

384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 59.261233 -9.100000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 59.625300 -9.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 59.989367 -9.100000 translate 0.035278 -0.035278 scale

start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 60.353433 -9.100000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 60.717500 -9.100000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto

2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 61.081567 -9.100000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 61.445633 -9.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 61.809700 -9.100000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 42.150100 -8.300000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto

2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 42.514167 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 42.878233 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 43.242300 -8.300000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 43.606367 -8.300000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 43.970433 -8.300000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto

2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 44.334500 -8.300000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 44.698567 -8.300000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 45.062633 -8.300000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 45.426700 -8.300000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 45.790767 -8.300000 translate 0.035278 -0.035278 scale
start_ol
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 46.154833 -8.300000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 46.518900 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2048 1663 moveto
2048 2388 1891 2698 conicto
1734 3008 1375 3008 conicto
1019 3008 861 2698 conicto
704 2388 704 1663 conicto
704 940 861 630 conicto
1019 320 1375 320 conicto
1734 320 1891 629 conicto
2048 938 2048 1663 conicto
2496 1663 moveto
2496 793 2219 364 conicto
1942 -64 1375 -64 conicto

808 -64 532 362 conicto
256 788 256 1663 conicto
256 2535 533 2963 conicto
810 3392 1375 3392 conicto
1942 3392 2219 2963 conicto
2496 2535 2496 1663 conicto
end_of grestore
gsave 46.882967 -8.300000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 47.247033 -8.300000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 47.611100 -8.300000 translate 0.035278 -0.035278 scale
start_of
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto

1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 47.975167 -8.300000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 48.339233 -8.300000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 48.703300 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto

832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 49.067367 -8.300000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 49.431433 -8.300000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 49.795500 -8.300000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto

2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto
640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 50.159567 -8.300000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 50.523633 -8.300000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto

2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 50.887700 -8.300000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 51.251767 -8.300000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 51.615833 -8.300000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 51.979900 -8.300000 translate 0.035278 -0.035278 scale
start_of
1534 2267 moveto
1610 2417 1727 2488 conicto
1845 2560 2010 2560 conicto
2312 2560 2436 2330 conicto
2560 2100 2560 1464 conicto
2560 0 lineto
2176 0 lineto
2176 1446 lineto
2176 1981 2118 2110 conicto
2060 2240 1906 2240 conicto
1730 2240 1665 2101 conicto
1600 1963 1600 1446 conicto
1600 0 lineto
1216 0 lineto
1216 1446 lineto
1216 1987 1153 2113 conicto
1090 2240 928 2240 conicto
766 2240 703 2101 conicto
640 1963 640 1446 conicto
640 0 lineto
256 0 lineto
256 2496 lineto

640 2496 lineto
640 2303 lineto
714 2428 824 2494 conicto
935 2560 1076 2560 conicto
1246 2560 1358 2487 conicto
1471 2414 1534 2267 conicto
end_of grestore
gsave 52.343967 -8.300000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 52.708033 -8.300000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto

1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 53.072100 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 53.436167 -8.300000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 53.800233 -8.300000 translate 0.035278 -0.035278 scale
start_ol

1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 54.164300 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 54.528367 -8.300000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 54.892433 -8.300000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 55.256500 -8.300000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto

320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 55.620567 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 55.984633 -8.300000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto

2112 1472 lineto
end_of grestore
gsave 56.348700 -8.300000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 56.712767 -8.300000 translate 0.035278 -0.035278 scale
start_of
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
showpage

%%EndDocument

@endspecial 447 x FA(12.2)68 b(TLS)44 b(Handshak)l(e)i(proto)t(col)150
3112 y FB(The)28 b Ft(Gn)n(uTLS)h FB(handshak)m(e)f(proto)s(col)i(is)f
(implemen)m(ted)g(as)g(a)h(state)g(mac)m(hine)f(that)h(w)m(aits)g(for)e

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(input)g(or)150 3222 y(returns)k(immediately)k(when)c(the)i(non-blo)s
(c)m(king)g(transp)s(ort)f(la)m(y)m(er)i(functions)f(are)g(used.)50
b(The)33 b(main)150 3332 y(idea)e(is)f(sho)m(wn)g(in)g(the)h(follo)m
(wing)h(\014gure.)150 4760 y @beginspecial 0 @llx 0 @lly
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/Z /bracketleft /backslash /bracketright /asciicircum /underscore /quoteleft /a /b /c
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/threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
/Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
/Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex
/Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
/ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
/eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
/uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
/cp {closepath} bind def
/c {curveto} bind def
/f {fill} bind def
/a {arc} bind def

```

```

/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gsave {gsave} bind def
/sa {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

```

```

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
  /endangle exch def
  /startangle exch def
  /yrad exch def
  /xrad exch def
  /y exch def
  /x exch def /savematrix mtrx currentmatrix def
  x y tr xrad yrad sc
  0 0 1 startangle endangle arc
  savematrix setmatrix
  end
} def

```

```

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll

```

```

3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
  /p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
  /p2_x p1_x to_x p0_x sub 1 3 div mul add def
  /p2_y p1_y to_y p0_y sub 1 3 div mul add def
  p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-76.800000 -11.600000 translate
%%EndProlog

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 76.850000 2.350000 m 76.850000 11.550000 l 101.800000 11.550000 l 101.800000 2.350000 l f
0.000000 0.000000 0.000000 srgb
n 76.850000 2.350000 m 76.850000 11.550000 l 101.800000 11.550000 l 101.800000 2.350000 l cp s
1.000000 1.000000 1.000000 srgb
n 76.850000 1.350000 m 76.850000 2.350000 l 82.650000 2.350000 l 82.650000 1.350000 l f
0.000000 0.000000 0.000000 srgb
n 76.850000 1.350000 m 76.850000 2.350000 l 82.650000 2.350000 l 82.650000 1.350000 l cp s
gsave 76.950000 2.100000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto

```


1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 77.314067 2.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 77.678133 2.100000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 78.042200 2.100000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 78.406267 2.100000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto

1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 78.770333 2.100000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 79.134400 2.100000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 79.498467 2.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 79.862533 2.100000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto

2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 80.226600 2.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 80.590667 2.100000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto

1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 80.954733 2.100000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 81.318800 2.100000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 81.682867 2.100000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 82.046933 2.100000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 82.411000 2.100000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb


```

n 80.100000 4.550000 m 80.100000 7.150000 l 86.400000 7.150000 l 86.400000 4.550000 l f
n 80.100000 5.050000 m 80.100000 5.050000 0.500000 0.500000 180.000000 270.000000 ellipse f
n 86.400000 5.050000 m 86.400000 5.050000 0.500000 0.500000 270.000000 360.000000 ellipse f
n 79.600000 5.050000 m 79.600000 6.650000 l 86.900000 6.650000 l 86.900000 5.050000 l f
n 80.100000 6.650000 m 80.100000 6.650000 0.500000 0.500000 90.000000 180.000000 ellipse f
n 86.400000 6.650000 m 86.400000 6.650000 0.500000 0.500000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 80.100000 4.550000 m 86.400000 4.550000 l s
n 80.100000 7.150000 m 86.400000 7.150000 l s
n 80.100000 5.050000 0.500000 0.500000 180.000000 270.000000 ellipse s
n 86.400000 5.050000 0.500000 0.500000 270.000000 360.000000 ellipse s
n 79.600000 5.050000 m 79.600000 6.650000 l s
n 86.900000 5.050000 m 86.900000 6.650000 l s
n 80.100000 6.650000 0.500000 0.500000 90.000000 180.000000 ellipse s
n 86.400000 6.650000 0.500000 0.500000 0.000000 90.000000 ellipse s
gsave 80.193533 5.650000 translate 0.035278 -0.035278 scale
start_ol
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto
847 832 lineto
542 0 lineto
64 0 lineto
1344 3328 lineto
end_ol grestore
gsave 80.583000 5.650000 translate 0.035278 -0.035278 scale
start_ol
192 2496 moveto
607 2496 lineto
1126 549 lineto
1643 2496 lineto
2133 2496 lineto
2652 549 lineto
3169 2496 lineto
3584 2496 lineto
2923 0 lineto
2433 0 lineto
1890 2046 lineto
1343 0 lineto
853 0 lineto
192 2496 lineto
end_ol grestore

```

gsave 81.082533 5.650000 translate 0.035278 -0.035278 scale

start_ol

1559 1280 moveto

1040 1280 840 1160 conicto

640 1041 640 754 conicto

640 525 790 390 conicto

940 256 1198 256 conicto

1554 256 1769 510 conicto

1984 765 1984 1187 conicto

1984 1280 lineto

1559 1280 lineto

2368 1449 moveto

2368 0 lineto

1984 0 lineto

1984 384 lineto

1842 154 1628 45 conicto

1415 -64 1107 -64 conicto

717 -64 486 154 conicto

256 372 256 739 conicto

256 1166 539 1383 conicto

822 1600 1384 1600 conicto

1984 1600 lineto

1984 1641 lineto

1984 1927 1796 2083 conicto

1608 2240 1266 2240 conicto

1049 2240 843 2192 conicto

638 2144 448 2048 conicto

448 2432 lineto

673 2496 884 2528 conicto

1095 2560 1295 2560 conicto

1835 2560 2101 2284 conicto

2368 2009 2368 1449 conicto

end_ol grestore

gsave 81.455067 5.650000 translate 0.035278 -0.035278 scale

start_ol

448 2496 moveto

832 2496 lineto

832 0 lineto

448 0 lineto

448 2496 lineto

448 3520 moveto

832 3520 lineto

832 3008 lineto

448 3008 lineto

448 3520 lineto

end_ol grestore

gsave 81.624400 5.650000 translate 0.035278 -0.035278 scale

start_ol

832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 81.861467 5.650000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 82.030800 5.650000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto

983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 82.420267 5.650000 translate 0.035278 -0.035278 scale
start_ol
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave 82.809733 5.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 83.004467 5.650000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto

2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 83.393933 5.650000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 83.766467 5.650000 translate 0.035278 -0.035278 scale

start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 84.155933 5.650000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 84.545400 5.650000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto

2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 84.867133 5.650000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto

end_of_grestore
gsave 85.256600 5.650000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of_grestore
gsave 85.629133 5.650000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto

end_of grestore
gsave 85.959333 5.650000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 81.891100 6.450000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 82.483767 6.450000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 82.856300 6.450000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto

1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 83.178033 6.450000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto

1875 2496 2048 2432 conicto
end_of grestore
gsave 83.499767 6.450000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 83.872300 6.450000 translate 0.035278 -0.035278 scale
start_of
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto

1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave 84.261767 6.450000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
0.100000 slw
[] 0 sd

1.000000 1.000000 1.000000 srgb
n 91.150000 4.550000 m 91.150000 7.150000 1 98.300000 7.150000 1 98.300000 4.550000 l f
n 91.150000 5.050000 m 91.150000 5.050000 0.500000 0.500000 180.000000 270.000000 ellipse f
n 98.300000 5.050000 m 98.300000 5.050000 0.500000 0.500000 270.000000 360.000000 ellipse f
n 90.650000 5.050000 m 90.650000 6.650000 1 98.800000 6.650000 1 98.800000 5.050000 l f
n 91.150000 6.650000 m 91.150000 6.650000 0.500000 0.500000 90.000000 180.000000 ellipse f
n 98.300000 6.650000 m 98.300000 6.650000 0.500000 0.500000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 91.150000 4.550000 m 98.300000 4.550000 l s
n 91.150000 7.150000 m 98.300000 7.150000 l s
n 91.150000 5.050000 0.500000 0.500000 180.000000 270.000000 ellipse s
n 98.300000 5.050000 0.500000 0.500000 270.000000 360.000000 ellipse s
n 90.650000 5.050000 m 90.650000 6.650000 l s
n 98.800000 5.050000 m 98.800000 6.650000 l s
n 91.150000 6.650000 0.500000 0.500000 90.000000 180.000000 ellipse s
n 98.300000 6.650000 0.500000 0.500000 0.000000 90.000000 ellipse s
gsave 91.342567 5.650000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
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1488 3328 lineto
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2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 91.698167 5.650000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2112 lineto
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1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 91.935233 5.650000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
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1733 256 1922 522 conicto
2112 789 2112 1248 conicto
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2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
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256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
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start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
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2240 64 lineto
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1698 -64 1490 -64 conicto
924 -64 590 290 conicto
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256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto

2070 2496 2240 2432 conicto
end_of grestore
gsave 92.646433 5.650000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
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2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
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2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
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750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
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640 1709 757 1625 conicto
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936 -64 717 -32 conicto
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256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto

1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
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640 1709 757 1625 conicto
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1380 1435 lineto
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1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
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256 512 lineto
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1470 256 1631 358 conicto
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1792 820 1670 912 conicto
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988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 93.662433 5.650000 translate 0.035278 -0.035278 scale
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832 2496 lineto
832 0 lineto

448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 93.831767 5.650000 translate 0.035278 -0.035278 scale
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1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
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256 1859 542 2209 conicto
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1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
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1984 1280 lineto
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448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
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2106 2560 2333 2293 conicto
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end_ol grestore
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2496 0 lineto

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957 2240 798 2144 conicto
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1380 1435 lineto
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start_ol
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448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 97.057567 5.650000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
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1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
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1984 384 lineto
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717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
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1608 2240 1266 2240 conicto
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448 2432 lineto
673 2496 884 2528 conicto
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start_of
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448 3520 lineto
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start_of
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2496 128 lineto
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1805 -64 1565 -64 conicto
961 -64 608 284 conicto
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256 1839 595 2199 conicto
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2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto

end_of grestore
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start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
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end_of grestore
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start_of
2624 1352 moveto
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704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
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end_of grestore
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start_of
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957 2240 798 2144 conicto

640 2048 640 1856 conicto
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2176 999 2176 692 conicto
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1792 820 1670 912 conicto
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1875 2496 2048 2432 conicto
end_of grestore
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start_of
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640 525 790 390 conicto
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2368 1449 moveto
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1984 0 lineto
1984 384 lineto
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256 1166 539 1383 conicto
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1984 1641 lineto

1984 1927 1796 2083 conicto
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638 2144 448 2048 conicto
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1835 2560 2101 2284 conicto
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0 slj
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0 slc
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0 slc
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[/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef
/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef
/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef/.notdef
/.notdef/.notdef /space /exclam /quotedbl /numbersign /dollar /percent /ampersand /quoteright
/parenleft /parenright /asterisk /plus /comma /hyphen /period /slash /zero /one
/two /three /four /five /six /seven /eight /nine /colon /semicolon
/less /equal /greater /question /at /A /B /C /D /E
/F /G /H /I /J /K /L /M /N /O
/P /Q /R /S /T /U /V /W /X /Y
/Z /bracketleft /backslash /bracketright /asciicircum /underscore /quoteleft /a /b /c
/d /e /f /g /h /i /j /k /l /m
/n /o /p /q /r /s /t /u /v /w
/x /y /z /braceleft /bar /braceright /asciitilde /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef /.notdef
/space /exclamdown /cent /sterling /currency /yen /brokenbar /section /dieresis /copyright
/ordfeminine /guillemotleft /logicalnot /hyphen /registered /macron /degree /plusminus /twosuperior /threesuperior
/acute /mu /paragraph /periodcentered /cedilla /onesuperior /ordmasculine /guillemotright /onequarter /onehalf
/threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
/Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
/Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex

```

/Udieresis /Yacute /Thorn /germandbls /grave /acute /acircumflex /atilde /adieresis /aring
/ae /ccedilla /grave /acute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
/eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
/uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
/cp {closepath} bind def
/c {curveto} bind def
/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gs {gsave} bind def
/sa {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
/endangle exch def
/startangle exch def
/yrad exch def
/xrad exch def
/y exch def
/x exch def /savematrix mtrx currentmatrix def
x y tr xrad yrad sc
0 0 1 startangle endangle arc
savematrix setmatrix
end
} def

```

```

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
/to_y exch def
/to_x exch def
/conic_cntrl_y exch def
/conic_cntrl_x exch def
currentpoint
/p0_y exch def
/p0_x exch def
/p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
/p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
/p2_x p1_x to_x p0_x sub 1 3 div mul add def
/p2_y p1_y to_y p0_y sub 1 3 div mul add def
p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-3.171030 -32.944600 translate
%%EndProlog

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 12.678600 17.725000 m 12.678600 19.525000 l 17.178600 19.525000 l 17.178600 17.725000 l f
0.000000 0.000000 0.000000 srgb
n 12.678600 17.725000 m 12.678600 19.525000 l 17.178600 19.525000 l 17.178600 17.725000 l cp s

```

gsave 13.277600 18.825000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 13.667067 18.825000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto

673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 14.039600 18.825000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 14.429067 18.825000 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto

1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 14.818533 18.825000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 15.140267 18.825000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto

832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 15.529733 18.825000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 15.902267 18.825000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto

2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 16.232467 18.825000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
0.050000 slw
n 13.178600 18.975000 m 16.678600 18.975000 l s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 18.292900 17.725000 m 18.292900 19.525000 l 26.592900 19.525000 l 26.592900 17.725000 l f
0.000000 0.000000 0.000000 srgb
n 18.292900 17.725000 m 18.292900 19.525000 l 26.592900 19.525000 l 26.592900 17.725000 l cp s
gsave 18.925000 18.825000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto

1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 19.297533 18.825000 translate 0.035278 -0.035278 scale
start_of
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_of grestore
gsave 19.687000 18.825000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto

832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 19.924067 18.825000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 20.313533 18.825000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto

2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 20.686067 18.825000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 21.075533 18.825000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto

1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 21.312600 18.825000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 21.481933 18.825000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 21.820600 18.825000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto

1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 22.193133 18.825000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto

448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 22.430200 18.825000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 22.599533 18.825000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 22.972067 18.825000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 23.361533 18.825000 translate 0.035278 -0.035278 scale
start_ol
2368 -768 moveto
2368 -1088 lineto
-64 -1088 lineto
-64 -768 lineto
2368 -768 lineto
end_ol grestore
gsave 23.666333 18.825000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto

end_of grestore
gsave 24.259000 18.825000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 24.631533 18.825000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore

gsave 24.868600 18.825000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 25.258067 18.825000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 25.630600 18.825000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto

2112 384 lineto
 1980 156 1779 46 conicto
 1578 -64 1297 -64 conicto
 835 -64 545 297 conicto
 256 659 256 1248 conicto
 256 1837 545 2198 conicto
 835 2560 1297 2560 conicto
 1578 2560 1779 2450 conicto
 1980 2340 2112 2112 conicto
 704 1249 moveto
 704 784 891 520 conicto
 1079 256 1407 256 conicto
 1735 256 1923 520 conicto
 2112 784 2112 1249 conicto
 2112 1713 1923 1976 conicto
 1735 2240 1407 2240 conicto
 1079 2240 891 1976 conicto
 704 1713 704 1249 conicto
 end_of grestore
 0.050000 slw
 n 18.792900 18.975000 m 26.092900 18.975000 l s
 0.050000 slw
 [] 0 sd
 [0.400000] 0 sd
 n 14.928600 19.525000 m 14.928600 32.625000 l s
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 14.578600 24.363604 m 14.578600 29.843681 l 15.278600 29.843681 l 15.278600 24.363604 l f
 0.000000 0.000000 0.000000 srgb
 n 14.578600 24.363604 m 14.578600 29.843681 l 15.278600 29.843681 l 15.278600 24.363604 l cp s
 0.050000 slw
 [] 0 sd
 [0.400000] 0 sd
 n 22.442900 19.525000 m 22.442900 32.919600 l s
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 22.092900 25.000000 m 22.092900 27.800000 l 22.792900 27.800000 l 22.792900 25.000000 l f
 0.000000 0.000000 0.000000 srgb
 n 22.092900 25.000000 m 22.092900 27.800000 l 22.792900 27.800000 l 22.792900 25.000000 l cp s
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 7.614290 16.925000 m 7.614290 19.525000 l 11.564290 19.525000 l 11.564290 16.925000 l f
 0.000000 0.000000 0.000000 srgb
 n 7.614290 16.925000 m 7.614290 19.525000 l 11.564290 19.525000 l 11.564290 16.925000 l cp s
 gsave 8.183823 18.025000 translate 0.035278 -0.035278 scale

start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 8.420890 18.025000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 8.674890 18.025000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto

1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 9.047423 18.025000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 9.436890 18.025000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto

1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
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640 1709 757 1625 conicto
875 1542 1229 1467 conicto
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936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
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1470 256 1631 358 conicto
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1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 9.758623 18.025000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
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2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto

832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 10.148090 18.025000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 10.520623 18.025000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 10.774623 18.025000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto

832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 8.823057 18.825000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave 8.992390 18.825000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto

1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 9.364923 18.825000 translate 0.035278 -0.035278 scale
start_of
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_of grestore
gsave 9.728990 18.825000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto

2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 10.101523 18.825000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
0.050000 slw
n 8.114290 18.175000 m 11.064290 18.175000 l s
n 8.839290 18.975000 m 10.339290 18.975000 l s
0.050000 slw
[] 0 sd
[0.400000] 0 sd
n 9.589290 19.525000 m 9.589290 32.848900 l s
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[] 0 sd
[] 0 sd
0 slc
n 5.721030 23.050000 m 8.752490 23.039230 l s
[] 0 sd
0 slj
0 slc
n 9.127487 23.037897 m 8.628379 23.289672 l 8.752490 23.039230 l 8.626602 22.789675 l ef
n 9.127487 23.037897 m 8.628379 23.289672 l 8.752490 23.039230 l 8.626602 22.789675 l cp s

0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 9.939290 25.725000 m 14.091797 25.732698 l s
[] 0 sd
0 slj
0 slc
n 14.466797 25.733393 m 13.966334 25.982465 l 14.091797 25.732698 l 13.967261 25.482466 l ef
n 14.466797 25.733393 m 13.966334 25.982465 l 14.091797 25.732698 l 13.967261 25.482466 l cp s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 15.278600 25.733600 m 21.606103 25.702400 l s
[] 0 sd
0 slj
0 slc
n 21.981098 25.700551 m 21.482337 25.953014 l 21.606103 25.702400 l 21.479871 25.453020 l ef
n 21.981098 25.700551 m 21.482337 25.953014 l 21.606103 25.702400 l 21.479871 25.453020 l cp s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 22.092900 27.100000 m 15.765403 27.103343 l s
[] 0 sd
0 slj
0 slc
n 15.390403 27.103541 m 15.890271 26.853277 l 15.765403 27.103343 l 15.890535 27.353277 l ef
n 15.390403 27.103541 m 15.890271 26.853277 l 15.765403 27.103343 l 15.890535 27.353277 l cp s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 14.578600 28.473700 m 10.426051 28.418921 l s
[] 0 sd
0 slj
0 slc
n 10.051084 28.413975 m 10.554338 28.170592 l 10.426051 28.418921 l 10.547743 28.670548 l ef
n 10.051084 28.413975 m 10.554338 28.170592 l 10.426051 28.418921 l 10.547743 28.670548 l cp s
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 4.471030 21.250000 0.300000 0.300000 0 360 ellipse f
0.000000 0.000000 0.000000 srgb
n 4.471030 21.250000 0.300000 0.300000 0 360 ellipse cp s
n 3.271030 21.850000 m 5.671030 21.850000 l s
n 4.471030 21.550000 m 4.471030 23.050000 l s

n 4.471030 23.050000 m 3.271030 24.350000 l s
n 4.471030 23.050000 m 5.671030 24.350000 l s
gsave 3.776763 25.550000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
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963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 4.166230 25.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto

1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 4.538763 25.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
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256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 4.911297 25.550000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore

showpage

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/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gsave {gsave} bind def
/save {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def
/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
/endangle exch def
/startangle exch def
/yrad exch def
/xrad exch def
/y exch def
/x exch def /savematrix mtrx currentmatrix def
x y tr xrad yrad sc
0 0 1 startangle endangle arc
savematrix setmatrix
end

```

```

} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
  /p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
  /p2_x p1_x to_x p0_x sub 1 3 div mul add def
  /p2_y p1_y to_y p0_y sub 1 3 div mul add def
  p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-6.600000 -21.950000 translate
%%EndProlog

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 6.650000 4.700000 m 6.650000 6.100000 l 35.250000 6.100000 l 35.250000 4.700000 l f
0.000000 0.000000 0.000000 srgb

```

n 6.650000 4.700000 m 6.650000 6.100000 1 35.250000 6.100000 1 35.250000 4.700000 1 cp s
gsave 18.232200 5.700000 translate 0.035278 -0.035278 scale
start_ol
3648 2597 moveto
3881 2889 4176 3044 conicto
4472 3200 4792 3200 conicto
5212 3200 5454 2968 conicto
5696 2736 5696 2330 conicto
5696 2246 5682 2137 conicto
5669 2029 5643 1891 conicto
5248 0 lineto
4252 0 lineto
4564 1620 lineto
4572 1661 lineto
4644 2004 4644 2102 conicto
4644 2255 4557 2343 conicto
4470 2432 4322 2432 conicto
4038 2432 3841 2197 conicto
3644 1963 3558 1528 conicto
3264 0 lineto
2245 0 lineto
2570 1620 lineto
2612 1827 2629 1934 conicto
2646 2041 2646 2102 conicto
2646 2257 2558 2344 conicto
2471 2432 2316 2432 conicto
2036 2432 1826 2189 conicto
1616 1946 1535 1528 conicto
1230 0 lineto
192 0 lineto
832 3136 lineto
1848 3136 lineto
1755 2661 lineto
1990 2929 2256 3064 conicto
2523 3200 2811 3200 conicto
3136 3200 3368 3031 conicto
3600 2863 3648 2597 conicto
end_ol grestore
gsave 19.028067 5.700000 translate 0.035278 -0.035278 scale
start_ol
2139 2496 moveto
1736 2496 1476 2144 conicto
1216 1792 1216 1247 conicto
1216 951 1356 795 conicto
1497 640 1765 640 conicto
2168 640 2428 993 conicto
2688 1347 2688 1895 conicto
2688 2189 2548 2342 conicto

2408 2496 2139 2496 conicto
2214 3200 moveto
2913 3200 3312 2847 conicto
3712 2495 3712 1888 conicto
3712 1534 3586 1202 conicto
3461 871 3220 597 conicto
2935 270 2546 103 conicto
2157 -64 1679 -64 conicto
989 -64 590 288 conicto
192 641 192 1249 conicto
192 1599 320 1933 conicto
449 2268 690 2545 conicto
969 2866 1356 3033 conicto
1744 3200 2214 3200 conicto
end_of grestore
gsave 19.553000 5.700000 translate 0.035278 -0.035278 scale
start_of
1746 640 moveto
2142 640 2390 999 conicto
2639 1358 2639 1939 conicto
2639 2201 2500 2348 conicto
2361 2496 2111 2496 conicto
1721 2496 1468 2141 conicto
1216 1786 1216 1232 conicto
1216 943 1352 791 conicto
1488 640 1746 640 conicto
2828 2683 moveto
3162 4352 lineto
4160 4352 lineto
3328 0 lineto
2291 0 lineto
2386 449 lineto
2155 186 1901 61 conicto
1647 -64 1345 -64 conicto
813 -64 502 269 conicto
192 602 192 1177 conicto
192 1534 301 1873 conicto
410 2212 613 2490 conicto
871 2839 1195 3019 conicto
1519 3200 1890 3200 conicto
2215 3200 2442 3074 conicto
2670 2948 2828 2683 conicto
end_of grestore
gsave 20.094867 5.700000 translate 0.035278 -0.035278 scale
start_of
2944 -640 moveto
2944 -1344 lineto
-64 -1344 lineto

-64 -640 lineto
2944 -640 lineto
end_of grestore
gsave 20.475867 5.700000 translate 0.035278 -0.035278 scale
start_of
1910 1472 moveto
1535 1472 1343 1345 conicto
1152 1219 1152 973 conicto
1152 789 1265 682 conicto
1378 576 1577 576 conicto
1884 576 2091 778 conicto
2298 980 2367 1347 conicto
2389 1472 lineto
1910 1472 lineto
3470 1836 moveto
3121 0 lineto
2121 0 lineto
2205 457 lineto
1959 190 1686 63 conicto
1413 -64 1093 -64 conicto
649 -64 388 170 conicto
128 404 128 799 conicto
128 1405 589 1726 conicto
1050 2048 1920 2048 conicto
2509 2048 lineto
2521 2119 lineto
2529 2157 2530 2173 conicto
2532 2189 2532 2203 conicto
2532 2380 2360 2470 conicto
2188 2560 1849 2560 conicto
1544 2560 1257 2496 conicto
971 2432 704 2304 conicto
846 3072 lineto
1157 3134 1483 3167 conicto
1809 3200 2159 3200 conicto
2849 3200 3184 2970 conicto
3520 2741 3520 2271 conicto
3520 2180 3507 2071 conicto
3495 1962 3470 1836 conicto
end_of grestore
gsave 20.992333 5.700000 translate 0.035278 -0.035278 scale
start_of
362 1237 moveto
704 3136 lineto
1716 3136 lineto
1398 1517 lineto
1365 1359 1347 1248 conicto
1330 1137 1330 1073 conicto

1330 898 1428 801 conicto
1527 704 1710 704 conicto
2024 704 2249 943 conicto
2475 1182 2559 1606 conicto
2864 3136 lineto
3904 3136 lineto
3264 0 lineto
2247 0 lineto
2340 473 lineto
2084 203 1803 69 conicto
1523 -64 1212 -64 conicto
786 -64 553 163 conicto
320 390 320 803 conicto
320 902 330 1011 conicto
341 1120 362 1237 conicto
end_ol grestore
gsave 21.534200 5.700000 translate 0.035278 -0.035278 scale
start_ol
2071 4032 moveto
1899 3136 lineto
2929 3136 lineto
2785 2432 lineto
1756 2432 lineto
1497 1085 lineto
1486 1040 1481 1008 conicto
1477 977 1477 949 conicto
1477 818 1563 761 conicto
1649 704 1851 704 conicto
2372 704 lineto
2228 0 lineto
1382 0 lineto
926 0 687 189 conicto
448 379 448 735 conicto
448 812 456 901 conicto
465 990 482 1082 conicto
741 2432 lineto
247 2432 lineto
383 3136 lineto
884 3136 lineto
1058 4032 lineto
2071 4032 lineto
end_ol grestore
gsave 21.898267 5.700000 translate 0.035278 -0.035278 scale
start_ol
3722 1891 moveto
3328 0 lineto
2323 0 lineto
2639 1620 lineto

2673 1778 2691 1887 conicto
2710 1996 2710 2060 conicto
2710 2238 2610 2335 conicto
2511 2432 2329 2432 conicto
2018 2432 1795 2192 conicto
1573 1952 1486 1528 conicto
1183 0 lineto
192 0 lineto
1024 4352 lineto
2032 4352 lineto
1704 2657 lineto
1984 2933 2268 3066 conicto
2552 3200 2861 3200 conicto
3299 3200 3537 2972 conicto
3776 2744 3776 2330 conicto
3776 2240 3763 2130 conicto
3750 2021 3722 1891 conicto
end_of grestore
gsave 22.440133 5.700000 translate 0.035278 -0.035278 scale
start_of
2944 -640 moveto
2944 -1344 lineto
-64 -1344 lineto
-64 -640 lineto
2944 -640 lineto
end_of grestore
gsave 22.821133 5.700000 translate 0.035278 -0.035278 scale
start_of
3258 3072 moveto
3109 2304 lineto
2814 2429 2521 2494 conicto
2229 2560 1966 2560 conicto
1668 2560 1506 2485 conicto
1344 2411 1344 2273 conicto
1344 2193 1435 2144 conicto
1527 2096 1797 2042 conicto
1984 2007 lineto
2588 1877 2830 1672 conicto
3072 1468 3072 1104 conicto
3072 554 2647 245 conicto
2223 -64 1451 -64 conicto
1128 -64 790 -16 conicto
453 32 101 128 conicto
253 896 lineto
526 737 837 656 conicto
1148 576 1474 576 conicto
1792 576 1952 653 conicto
2112 730 2112 877 conicto

2112 979 2020 1036 conicto
 1928 1093 1642 1153 conicto
 1456 1188 lineto
 912 1299 680 1516 conicto
 448 1733 448 2117 conicto
 448 2638 847 2919 conicto
 1246 3200 1987 3200 conicto
 2311 3200 2625 3168 conicto
 2939 3136 3258 3072 conicto
 end_of grestore
 gsave 23.278333 5.700000 translate 0.035278 -0.035278 scale
 start_of
 2071 4032 moveto
 1899 3136 lineto
 2929 3136 lineto
 2785 2432 lineto
 1756 2432 lineto
 1497 1085 lineto
 1486 1040 1481 1008 conicto
 1477 977 1477 949 conicto
 1477 818 1563 761 conicto
 1649 704 1851 704 conicto
 2372 704 lineto
 2228 0 lineto
 1382 0 lineto
 926 0 687 189 conicto
 448 379 448 735 conicto
 448 812 456 901 conicto
 465 990 482 1082 conicto
 741 2432 lineto
 247 2432 lineto
 383 3136 lineto
 884 3136 lineto
 1058 4032 lineto
 2071 4032 lineto
 end_of grestore
 1.000000 1.000000 1.000000 srgb
 n 6.650000 6.100000 m 6.650000 6.500000 l 35.250000 6.500000 l 35.250000 6.100000 l f
 0.000000 0.000000 0.000000 srgb
 n 6.650000 6.100000 m 6.650000 6.500000 l 35.250000 6.500000 l 35.250000 6.100000 l cp s
 1.000000 1.000000 1.000000 srgb
 n 6.650000 6.500000 m 6.650000 21.900000 l 35.250000 21.900000 l 35.250000 6.500000 l f
 0.000000 0.000000 0.000000 srgb
 n 6.650000 6.500000 m 6.650000 21.900000 l 35.250000 21.900000 l 35.250000 6.500000 l cp s
 gsave 6.800000 7.200000 translate 0.035278 -0.035278 scale
 start_of
 end_of grestore
 gsave 7.164067 7.200000 translate 0.035278 -0.035278 scale

start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 7.528133 7.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 7.892200 7.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 8.256267 7.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.620333 7.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 8.984400 7.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 9.348467 7.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.712533 7.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 10.076600 7.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.440667 7.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.804733 7.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.168800 7.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.532867 7.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 11.896933 7.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 12.261000 7.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 12.625067 7.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.989133 7.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 13.353200 7.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.717267 7.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 14.081333 7.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 14.445400 7.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.809467 7.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto

1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 15.173533 7.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 15.537600 7.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 15.901667 7.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto

1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 16.265733 7.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 16.629800 7.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 16.993867 7.200000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 17.357933 7.200000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.722000 7.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 18.086067 7.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.450133 7.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.814200 7.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto

741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 19.178267 7.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.542333 7.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.906400 7.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.270467 7.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto

1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 20.634533 7.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 20.998600 7.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 21.362667 7.200000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto

1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 21.726733 7.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 22.090800 7.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 22.454867 7.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 22.818933 7.200000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto

1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 23.183000 7.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 23.547067 7.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto

2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.911133 7.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.275200 7.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 24.639267 7.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 25.003333 7.200000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 25.367400 7.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 25.731467 7.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 26.095533 7.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 26.459600 7.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto

0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.823667 7.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 27.187733 7.200000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 27.551800 7.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto

2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 27.915867 7.200000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 28.279933 7.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 28.644000 7.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 29.008067 7.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 29.372133 7.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.736200 7.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 30.100267 7.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 30.464333 7.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 30.828400 7.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto

1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 31.192467 7.200000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 31.556533 7.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 31.920600 7.200000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto

1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 32.284667 7.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 32.648733 7.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 33.012800 7.200000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 33.376867 7.200000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto

end_of grestore
gsave 33.740933 7.200000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 34.105000 7.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 34.469067 7.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 34.833133 7.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 35.197200 7.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 35.561267 7.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.800000 8.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.164067 8.000000 translate 0.035278 -0.035278 scale

start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 7.528133 8.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 7.892200 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 8.256267 8.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.620333 8.000000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 8.984400 8.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto

320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 9.348467 8.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.712533 8.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.076600 8.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 10.440667 8.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 10.804733 8.000000 translate 0.035278 -0.035278 scale
start_ol

1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 11.168800 8.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 11.532867 8.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.896933 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 12.261000 8.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.625067 8.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.989133 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 13.353200 8.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.717267 8.000000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 14.081333 8.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 14.445400 8.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 14.809467 8.000000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 15.173533 8.000000 translate 0.035278 -0.035278 scale
start_ol

576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 15.537600 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 15.901667 8.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto

2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 16.265733 8.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 16.629800 8.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 16.993867 8.000000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 17.357933 8.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.722000 8.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 18.086067 8.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.450133 8.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto

2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.814200 8.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 19.178267 8.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto

2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.542333 8.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.906400 8.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.270467 8.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto

879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 20.634533 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.998600 8.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 21.362667 8.000000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto

2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 21.726733 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 22.090800 8.000000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto

448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 22.454867 8.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 22.818933 8.000000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto

1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 23.183000 8.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 23.547067 8.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.911133 8.000000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 24.275200 8.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto

1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 24.639267 8.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 25.003333 8.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 25.367400 8.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 25.731467 8.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto

768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 26.095533 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 26.459600 8.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.823667 8.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 27.187733 8.000000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 27.551800 8.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto

879 2560 1407 2560 conicto
end_ol grestore
gsave 27.915867 8.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 28.279933 8.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 28.644000 8.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 29.008067 8.000000 translate 0.035278 -0.035278 scale

start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 29.372133 8.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto

2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.736200 8.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 30.100267 8.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto

2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 30.464333 8.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 30.828400 8.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto

1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 31.192467 8.000000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 31.556533 8.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto

2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 31.920600 8.000000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto

end_of grestore
gsave 32.284667 8.000000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 32.648733 8.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 33.012800 8.000000 translate 0.035278 -0.035278 scale

start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 33.376867 8.000000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 33.740933 8.000000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto

1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 34.105000 8.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 34.469067 8.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 34.833133 8.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 35.197200 8.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 35.561267 8.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.800000 8.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 8.800000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto

704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 7.528133 8.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 7.892200 8.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 8.256267 8.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 8.620333 8.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.984400 8.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 9.348467 8.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 9.712533 8.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 10.076600 8.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.440667 8.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.804733 8.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.168800 8.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.532867 8.800000 translate 0.035278 -0.035278 scale
start_ol

256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_of grestore
gsave 11.896933 8.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 12.261000 8.800000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.625067 8.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 12.989133 8.800000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 13.353200 8.800000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave 13.717267 8.800000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto

1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 14.081333 8.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.445400 8.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave 14.809467 8.800000 translate 0.035278 -0.035278 scale
start_ol
end_of grestore
gsave 15.173533 8.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 15.537600 8.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 15.901667 8.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 16.265733 8.800000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 16.629800 8.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 16.993867 8.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 17.357933 8.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 17.722000 8.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto

1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 18.086067 8.800000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 18.450133 8.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 18.814200 8.800000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 19.178267 8.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 19.542333 8.800000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 19.906400 8.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 20.270467 8.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 20.634533 8.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave 20.998600 8.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 21.362667 8.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 21.726733 8.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.090800 8.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto

2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 22.454867 8.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 22.818933 8.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 23.183000 8.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.547067 8.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 23.911133 8.800000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 24.275200 8.800000 translate 0.035278 -0.035278 scale

start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 24.639267 8.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 25.003333 8.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 25.367400 8.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.731467 8.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 26.095533 8.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto

704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 26.459600 8.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 26.823667 8.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 27.187733 8.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto

1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 27.551800 8.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 27.915867 8.800000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto

832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 28.279933 8.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 28.644000 8.800000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto

2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 29.008067 8.800000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 29.372133 8.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 29.736200 8.800000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 30.100267 8.800000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto

1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 30.464333 8.800000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 30.828400 8.800000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 31.192467 8.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 31.556533 8.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto

2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 31.920600 8.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 32.284667 8.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.800000 9.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 9.600000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 7.528133 9.600000 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 7.892200 9.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 8.256267 9.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 8.620333 9.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.984400 9.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto

1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 9.348467 9.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 9.712533 9.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 10.076600 9.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.440667 9.600000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto

2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 10.804733 9.600000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 11.168800 9.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 11.532867 9.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto

2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.896933 9.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 12.261000 9.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.625067 9.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.989133 9.600000 translate 0.035278 -0.035278 scale
start_of
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_of grestore
gsave 13.353200 9.600000 translate 0.035278 -0.035278 scale
start_of
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto

671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_of grestore
gsave 13.717267 9.600000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 14.081333 9.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.445400 9.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto

1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 14.809467 9.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 15.173533 9.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave 15.537600 9.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 15.901667 9.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 16.265733 9.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 16.629800 9.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto

2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 16.993867 9.600000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 17.357933 9.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 17.722000 9.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 18.086067 9.600000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto

826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 18.450133 9.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 18.814200 9.600000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 19.178267 9.600000 translate 0.035278 -0.035278 scale

start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 19.542333 9.600000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 19.906400 9.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 20.270467 9.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 20.634533 9.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 20.998600 9.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 21.362667 9.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 21.726733 9.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto

837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 22.090800 9.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 22.454867 9.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 22.818933 9.600000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 23.183000 9.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 23.547067 9.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto

end_of grestore
gsave 23.911133 9.600000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 24.275200 9.600000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 24.639267 9.600000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto

1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 25.003333 9.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 25.367400 9.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.731467 9.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto

1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 26.095533 9.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 26.459600 9.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 26.823667 9.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 27.187733 9.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 27.551800 9.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 27.915867 9.600000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto

1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 28.279933 9.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 28.644000 9.600000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 29.008067 9.600000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto

833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 29.372133 9.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.736200 9.600000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto

2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 30.100267 9.600000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 30.464333 9.600000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 30.828400 9.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto

1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 31.192467 9.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 31.556533 9.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 31.920600 9.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 32.284667 9.600000 translate 0.035278 -0.035278 scale
start_ol

1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.800000 10.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.164067 10.400000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto

826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 7.528133 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 7.892200 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 8.256267 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 8.620333 10.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.984400 10.400000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 9.348467 10.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.712533 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.076600 10.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave 10.440667 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto

end_ol grestore
gsave 10.804733 10.400000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto

end_ol grestore
gsave 11.168800 10.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto

1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 11.532867 10.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.896933 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 12.261000 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.625067 10.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.989133 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto

2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 13.353200 10.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.717267 10.400000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto

1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 14.081333 10.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 14.445400 10.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 14.809467 10.400000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore

gsave 15.173533 10.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 15.537600 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 15.901667 10.400000 translate 0.035278 -0.035278 scale
start_ol
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto
448 -960 lineto

448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 16.265733 10.400000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 16.629800 10.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 16.993867 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 17.357933 10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.722000 10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 18.086067 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 18.450133 10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.814200 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.178267 10.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto

1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 19.542333 10.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 19.906400 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.270467 10.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 20.634533 10.400000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto

256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 20.998600 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 21.362667 10.400000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto

end_of grestore
gsave 21.726733 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 22.090800 10.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 22.454867 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.818933 10.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.183000 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto

512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 23.547067 10.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 23.911133 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto

896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.275200 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.639267 10.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 25.003333 10.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto

end_of grestore
gsave 25.367400 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 25.731467 10.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.095533 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto

960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 26.459600 10.400000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 26.823667 10.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 27.187733 10.400000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto

1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 27.551800 10.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 27.915867 10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 28.279933 10.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto

704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 28.644000 10.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.008067 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 29.372133 10.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto

744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 29.736200 10.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 30.100267 10.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 30.464333 10.400000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto

832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 30.828400 10.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto

744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 31.192467 10.400000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_ol grestore
gsave 31.556533 10.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto

1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 31.920600 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 32.284667 10.400000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto

1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 32.648733 10.400000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 33.012800 10.400000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 33.376867 10.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto

1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 33.740933 10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 34.105000 10.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 34.469067 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore

gsave 34.833133 10.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.800000 11.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 11.200000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto

1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 7.528133 11.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 7.892200 11.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 8.256267 11.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 8.620333 11.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto

1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 8.984400 11.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 9.348467 11.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto

1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 9.712533 11.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.076600 11.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto

2304 -768 lineto
end_of grestore
gsave 10.440667 11.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 10.804733 11.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.168800 11.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.532867 11.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 11.896933 11.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 12.261000 11.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.625067 11.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 12.989133 11.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto

2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 13.353200 11.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.717267 11.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto

2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 14.081333 11.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 14.445400 11.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto

576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.809467 11.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 15.173533 11.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto

end_of grestore
gsave 15.537600 11.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 15.901667 11.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 16.265733 11.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 16.629800 11.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto

256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 16.993867 11.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 17.357933 11.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 17.722000 11.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 18.086067 11.200000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 18.450133 11.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto

1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 18.814200 11.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 19.178267 11.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.542333 11.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 19.906400 11.200000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto

1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 20.270467 11.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.634533 11.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave 20.998600 11.200000 translate 0.035278 -0.035278 scale
start_ol
end_of grestore
gsave 21.362667 11.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 21.726733 11.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto

2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 22.090800 11.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.454867 11.200000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 22.818933 11.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto

1216 3520 lineto
end_of grestore
gsave 23.183000 11.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 23.547067 11.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 23.911133 11.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto

1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 24.275200 11.200000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 24.639267 11.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 25.003333 11.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 25.367400 11.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 25.731467 11.200000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 26.095533 11.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 26.459600 11.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.823667 11.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto

end_of grestore
gsave 27.187733 11.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 27.551800 11.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 27.915867 11.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 28.279933 11.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto

2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 28.644000 11.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 29.008067 11.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 29.372133 11.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 29.736200 11.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 30.100267 11.200000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 6.800000 11.800000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 7.164067 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.892200 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.256267 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.620333 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.984400 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.348467 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.712533 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.076600 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.440667 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.804733 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.168800 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.532867 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.896933 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.261000 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.625067 11.800000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 12.989133 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.353200 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.717267 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.081333 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.445400 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.173533 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.537600 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.901667 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.265733 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.629800 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.993867 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.357933 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.722000 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.086067 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.450133 11.800000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 18.814200 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.178267 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.542333 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.906400 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 20.270467 11.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 20.634533 11.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto

1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 20.998600 11.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 21.362667 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 21.726733 11.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto

704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 22.090800 11.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 22.454867 11.800000 translate 0.035278 -0.035278 scale
start_of

1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 22.818933 11.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto

512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 23.183000 11.800000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 23.547067 11.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 23.911133 11.800000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto

832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 24.275200 11.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto

512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 24.639267 11.800000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_ol grestore
gsave 25.003333 11.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto

1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 25.367400 11.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 25.731467 11.800000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto

1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 26.095533 11.800000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_of grestore
gsave 26.459600 11.800000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 26.823667 11.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto

1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 27.187733 11.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 27.551800 11.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 27.915867 11.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave 28.279933 11.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.800000 12.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.164067 12.600000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto

1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.528133 12.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 7.892200 12.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 8.256267 12.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto

1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 8.620333 12.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.984400 12.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.348467 12.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.712533 12.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.076600 12.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.440667 12.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.804733 12.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.168800 12.600000 translate 0.035278 -0.035278 scale

start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 11.532867 12.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.896933 12.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto

1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.261000 12.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 12.625067 12.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 12.989133 12.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.353200 12.600000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 13.717267 12.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto

256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 14.081333 12.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.445400 12.600000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 14.809467 12.600000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 15.173533 12.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 15.537600 12.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto

1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.901667 12.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 16.265733 12.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 16.629800 12.600000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 16.993867 12.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto

2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.357933 12.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 17.722000 12.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.086067 12.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 18.450133 12.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 18.814200 12.600000 translate 0.035278 -0.035278 scale
start_ol

2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 19.178267 12.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.542333 12.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 19.906400 12.600000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto

1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 20.270467 12.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.634533 12.600000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 20.998600 12.600000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto

1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 21.362667 12.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 21.726733 12.600000 translate 0.035278 -0.035278 scale
start_of

448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 22.090800 12.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 22.454867 12.600000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto

1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 22.818933 12.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 23.183000 12.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave 23.547067 12.600000 translate 0.035278 -0.035278 scale

start_ol

2240 2432 moveto

2240 2048 lineto

2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto

896 2059 896 1873 conicto

896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto

1757 1429 lineto

2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto

2368 359 2100 147 conicto

1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto

753 0 512 64 conicto

512 512 lineto

752 385 971 320 conicto

1191 256 1387 256 conicto

1672 256 1828 371 conicto

1984 487 1984 693 conicto

1984 991 1380 1106 conicto

1360 1110 lineto

1190 1143 lineto

837 1211 674 1373 conicto

512 1536 512 1817 conicto

512 2173 761 2366 conicto

1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto

end_ol grestore

gsave 23.911133 12.600000 translate 0.035278 -0.035278 scale

start_ol

2496 1352 moveto

2496 1152 lineto

688 1152 lineto

688 1139 lineto

688 717 901 486 conicto

1114 256 1501 256 conicto

1697 256 1911 319 conicto

2125 383 2368 512 conicto

2368 128 lineto

2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto

912 -64 584 285 conicto

256 634 256 1248 conicto

256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 24.275200 12.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 24.639267 12.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 25.003333 12.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 25.367400 12.600000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto

1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 25.731467 12.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 26.095533 12.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 26.459600 12.600000 translate 0.035278 -0.035278 scale
start_ol

1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 26.823667 12.600000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 27.187733 12.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto

end_of grestore
gsave 27.551800 12.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 27.915867 12.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 28.279933 12.600000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto

704 1739 704 1248 conicto
end_of grestore
gsave 28.644000 12.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.008067 12.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto

2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 29.372133 12.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore

gsave 29.736200 12.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 30.100267 12.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 30.464333 12.600000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto

1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 30.828400 12.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore

gsave 31.192467 12.600000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_ol grestore
gsave 31.556533 12.600000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 31.920600 12.600000 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 32.284667 12.600000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 32.648733 12.600000 translate 0.035278 -0.035278 scale
start_ol

1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 6.800000 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.892200 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.256267 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.620333 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.984400 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.348467 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.712533 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.076600 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.440667 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.804733 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.168800 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.532867 13.200000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 11.896933 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.261000 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.625067 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.989133 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.353200 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.717267 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.081333 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.445400 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.173533 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.537600 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.901667 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.265733 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.629800 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.993867 13.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto

1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.357933 13.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 17.722000 13.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.086067 13.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto

824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 18.450133 13.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto

2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 18.814200 13.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 19.178267 13.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto

2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 19.542333 13.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 19.906400 13.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 20.270467 13.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.634533 13.200000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 20.998600 13.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto

2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 21.362667 13.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 21.726733 13.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 22.090800 13.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 22.454867 13.200000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 22.818933 13.200000 translate 0.035278 -0.035278 scale

start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 23.183000 13.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 23.547067 13.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 23.911133 13.200000 translate 0.035278 -0.035278 scale
start_of
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_of grestore
gsave 24.275200 13.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 24.639267 13.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 25.003333 13.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto

576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 25.367400 13.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 25.731467 13.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_ol grestore
gsave 6.800000 14.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 14.000000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.528133 14.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto

end_of grestore
gsave 7.892200 14.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 8.256267 14.000000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 8.620333 14.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.984400 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.348467 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.712533 14.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.076600 14.000000 translate 0.035278 -0.035278 scale
start_of

2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 10.440667 14.000000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 10.804733 14.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 11.168800 14.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.532867 14.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto

944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 11.896933 14.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.261000 14.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.625067 14.000000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto

1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 12.989133 14.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.353200 14.000000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto

1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 13.717267 14.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 14.081333 14.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 14.445400 14.000000 translate 0.035278 -0.035278 scale
start_ol

2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 14.809467 14.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 15.173533 14.000000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 15.537600 14.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto

end_of grestore
gsave 15.901667 14.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 16.265733 14.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto

end_of grestore
gsave 16.629800 14.000000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 16.993867 14.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 17.357933 14.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 17.722000 14.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 18.086067 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.450133 14.000000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 18.814200 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.178267 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.542333 14.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 19.906400 14.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 20.270467 14.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.634533 14.000000 translate 0.035278 -0.035278 scale

start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 20.998600 14.000000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 21.362667 14.000000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 21.726733 14.000000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 22.090800 14.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto

1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 22.454867 14.000000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 22.818933 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 23.183000 14.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 23.547067 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto

512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 23.911133 14.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 24.275200 14.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto

512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.639267 14.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 25.003333 14.000000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 25.367400 14.000000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 25.731467 14.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto

832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 26.095533 14.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 26.459600 14.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 26.823667 14.000000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto

1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 27.187733 14.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 27.551800 14.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 27.915867 14.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 28.279933 14.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 28.644000 14.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.008067 14.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 29.372133 14.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto

2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 29.736200 14.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 30.100267 14.000000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto

2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 30.464333 14.000000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 30.828400 14.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto

2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 31.192467 14.000000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 31.556533 14.000000 translate 0.035278 -0.035278 scale

start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 31.920600 14.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 32.284667 14.000000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto

1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 32.648733 14.000000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 6.800000 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.892200 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.256267 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.620333 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.984400 14.600000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 9.348467 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.712533 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.076600 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.440667 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.804733 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.168800 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.532867 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.896933 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.261000 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.625067 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.989133 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.353200 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.717267 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.081333 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.445400 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 14.600000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 15.173533 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.537600 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.901667 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.265733 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.629800 14.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.993867 14.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.357933 14.600000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 17.722000 14.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 18.086067 14.600000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 18.450133 14.600000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto

1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 18.814200 14.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 19.178267 14.600000 translate 0.035278 -0.035278 scale

start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 19.542333 14.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 19.906400 14.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 20.270467 14.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.634533 14.600000 translate 0.035278 -0.035278 scale
start_of

512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 20.998600 14.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 21.362667 14.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto

1088 0 lineto
1088 704 lineto
end_of grestore
gsave 21.726733 14.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.090800 14.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 22.454867 14.600000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 22.818933 14.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 23.183000 14.600000 translate 0.035278 -0.035278 scale
start_ol

2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 23.547067 14.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 23.911133 14.600000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 24.275200 14.600000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto

1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 24.639267 14.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 25.003333 14.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 25.367400 14.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto

end_of grestore
gsave 25.731467 14.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.800000 15.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.164067 15.400000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto

1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.528133 15.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 7.892200 15.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 8.256267 15.400000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto

1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 8.620333 15.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.984400 15.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.348467 15.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.712533 15.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.076600 15.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.440667 15.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.804733 15.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.168800 15.400000 translate 0.035278 -0.035278 scale

start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 11.532867 15.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.896933 15.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto

1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 12.261000 15.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 12.625067 15.400000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 12.989133 15.400000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_ol grestore
gsave 13.353200 15.400000 translate 0.035278 -0.035278 scale
start_ol

1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 13.717267 15.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 14.081333 15.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.445400 15.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 15.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 15.173533 15.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 15.537600 15.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore

gsave 15.901667 15.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 16.265733 15.400000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 16.629800 15.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 16.993867 15.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 17.357933 15.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto

1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 17.722000 15.400000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 18.086067 15.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto

1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 18.450133 15.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 18.814200 15.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 19.178267 15.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 19.542333 15.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 19.906400 15.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 20.270467 15.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_of grestore
gsave 20.634533 15.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 20.998600 15.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 21.362667 15.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 21.726733 15.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto

1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 22.090800 15.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 22.454867 15.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 22.818933 15.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 23.183000 15.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 23.547067 15.400000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore

gsave 23.911133 15.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 24.275200 15.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 24.639267 15.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.003333 15.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto

2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 25.367400 15.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto

512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 25.731467 15.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 26.095533 15.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto

796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 26.459600 15.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 26.823667 15.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto

320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 27.187733 15.400000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 27.551800 15.400000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto

796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 27.915867 15.400000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_ol grestore
gsave 28.279933 15.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto

832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 28.644000 15.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.008067 15.400000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto

1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 29.372133 15.400000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 6.800000 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.892200 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.256267 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.620333 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.984400 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.348467 16.000000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 9.712533 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.076600 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.440667 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.804733 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.168800 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.532867 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.896933 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.261000 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.625067 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.989133 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.353200 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.717267 16.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto

1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.081333 16.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 14.445400 16.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 14.809467 16.000000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto

1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 15.173533 16.000000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.537600 16.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 15.901667 16.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 16.265733 16.000000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 16.629800 16.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 16.993867 16.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto

1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.357933 16.000000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 17.722000 16.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 18.086067 16.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 18.450133 16.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto

512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 18.814200 16.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 19.178267 16.000000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 19.542333 16.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto

2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 19.906400 16.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 20.270467 16.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 20.634533 16.000000 translate 0.035278 -0.035278 scale
start_ol

832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 20.998600 16.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 21.362667 16.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 21.726733 16.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 22.090800 16.000000 translate 0.035278 -0.035278 scale

start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 22.454867 16.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.800000 16.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 16.800000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto

448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.528133 16.800000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 7.892200 16.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto

2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 8.256267 16.800000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 8.620333 16.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 8.984400 16.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.348467 16.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto

2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.712533 16.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.076600 16.800000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto

2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 10.440667 16.800000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 10.804733 16.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 11.168800 16.800000 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 11.532867 16.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 11.896933 16.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto

2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 12.261000 16.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 12.625067 16.800000 translate 0.035278 -0.035278 scale
start_ol
512 3520 moveto
896 3520 lineto
896 1460 lineto
2011 2496 lineto
2528 2496 lineto
1510 1556 lineto
2688 0 lineto
2168 0 lineto
1212 1289 lineto
896 1001 lineto
896 0 lineto
512 0 lineto
512 3520 lineto
end_ol grestore
gsave 12.989133 16.800000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto

1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_of grestore
gsave 13.353200 16.800000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 13.717267 16.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 14.081333 16.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto

1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.445400 16.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 16.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto
end_of grestore
gsave 15.173533 16.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 15.537600 16.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto

1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 15.901667 16.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 16.265733 16.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto

1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 16.629800 16.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 16.993867 16.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 17.357933 16.800000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 17.722000 16.800000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto

256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 18.086067 16.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 18.450133 16.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore

gsave 18.814200 16.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 19.178267 16.800000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 19.542333 16.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto

1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.906400 16.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 20.270467 16.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 20.634533 16.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 20.998600 16.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 21.362667 16.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 21.726733 16.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 22.090800 16.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore

gsave 22.454867 16.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 22.818933 16.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 23.183000 16.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto

1344 3200 lineto
end_of grestore
gsave 23.547067 16.800000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 23.911133 16.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 24.275200 16.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto

1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 24.639267 16.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.003333 16.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 25.367400 16.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto

1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 25.731467 16.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 26.095533 16.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto

704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 26.459600 16.800000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 26.823667 16.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto

768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 27.187733 16.800000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 27.551800 16.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto

704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 27.915867 16.800000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto

1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 28.279933 16.800000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 28.644000 16.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto

2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 29.008067 16.800000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 29.372133 16.800000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 6.800000 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.892200 17.400000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 8.256267 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.620333 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.984400 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.348467 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.712533 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.076600 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.440667 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.804733 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.168800 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.532867 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.896933 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.261000 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.625067 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.989133 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.353200 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.717267 17.400000 translate 0.035278 -0.035278 scale

start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 14.081333 17.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.445400 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 17.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto

2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 15.173533 17.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto

744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.537600 17.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 15.901667 17.400000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto

320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 16.265733 17.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 16.629800 17.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 16.993867 17.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 17.357933 17.400000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 17.722000 17.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 18.086067 17.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 18.450133 17.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.814200 17.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 19.178267 17.400000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto

512 2496 lineto
end_of grestore
gsave 19.542333 17.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 19.906400 17.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 20.270467 17.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto

1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 20.634533 17.400000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 20.998600 17.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 21.362667 17.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 21.726733 17.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 22.090800 17.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 22.454867 17.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto

256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.800000 18.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.164067 18.200000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 7.528133 18.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 7.892200 18.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 8.256267 18.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 8.620333 18.200000 translate 0.035278 -0.035278 scale

start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 8.984400 18.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto

1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.348467 18.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.712533 18.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto

end_of grestore
gsave 10.076600 18.200000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 10.440667 18.200000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 10.804733 18.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto

1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 11.168800 18.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.532867 18.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 11.896933 18.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 12.261000 18.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 12.625067 18.200000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto

2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 12.989133 18.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 13.353200 18.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto

1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 13.717267 18.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 14.081333 18.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 14.445400 18.200000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto

end_of grestore
gsave 14.809467 18.200000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 15.173533 18.200000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 15.537600 18.200000 translate 0.035278 -0.035278 scale
start_of
1962 784 moveto
1858 525 1698 101 conicto
1477 -485 1400 -614 conicto
1297 -786 1142 -873 conicto
987 -960 780 -960 conicto

448 -960 lineto
448 -640 lineto
693 -640 lineto
876 -640 979 -534 conicto
1082 -429 1241 14 conicto
256 2496 lineto
707 2496 lineto
1452 544 lineto
2187 2496 lineto
2624 2496 lineto
1962 784 lineto
end_ol grestore
gsave 15.901667 18.200000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 16.265733 18.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 16.629800 18.200000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 16.993867 18.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.357933 18.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto

1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 17.722000 18.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 18.086067 18.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.450133 18.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 18.814200 18.200000 translate 0.035278 -0.035278 scale
start_of

576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 19.178267 18.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 19.542333 18.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 19.906400 18.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 20.270467 18.200000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto

826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 20.634533 18.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.998600 18.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto

448 425 448 921 conicto
end_of grestore
gsave 21.362667 18.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 21.726733 18.200000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 22.090800 18.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto

896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 22.454867 18.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 22.818933 18.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto

753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 23.183000 18.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 23.547067 18.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 23.911133 18.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto

1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.275200 18.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 24.639267 18.200000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto

879 2560 1407 2560 conicto
end_of grestore
gsave 25.003333 18.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 25.367400 18.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 25.731467 18.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto

960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 26.095533 18.200000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 26.459600 18.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 26.823667 18.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto

944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 27.187733 18.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 27.551800 18.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 27.915867 18.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto

2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 28.279933 18.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 28.644000 18.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto

1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 29.008067 18.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 29.372133 18.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto

1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 29.736200 18.200000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 30.100267 18.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto

1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 30.464333 18.200000 translate 0.035278 -0.035278 scale
start_ol
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto

320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 30.828400 18.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 31.192467 18.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 31.556533 18.200000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 31.920600 18.200000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 6.800000 18.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 18.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 18.800000 translate 0.035278 -0.035278 scale
start_ol

end_of grestore
gsave 7.892200 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.256267 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.620333 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.984400 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 9.348467 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 9.712533 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 10.076600 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 10.440667 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 10.804733 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 11.168800 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 11.532867 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 11.896933 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 12.261000 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 12.625067 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 12.989133 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 13.353200 18.800000 translate 0.035278 -0.035278 scale
start_of

end_of grestore
gsave 13.717267 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 14.081333 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 14.445400 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 14.809467 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 15.173533 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 15.537600 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 15.901667 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 16.265733 18.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 16.629800 18.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto

1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 16.993867 18.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 17.357933 18.800000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 17.722000 18.800000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto

704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 18.086067 18.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto

960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 18.450133 18.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 18.814200 18.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave 19.178267 18.800000 translate 0.035278 -0.035278 scale

start_ol

2240 2432 moveto

2240 2048 lineto

2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto

896 2059 896 1873 conicto

896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto

1757 1429 lineto

2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto

2368 359 2100 147 conicto

1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto

753 0 512 64 conicto

512 512 lineto

752 385 971 320 conicto

1191 256 1387 256 conicto

1672 256 1828 371 conicto

1984 487 1984 693 conicto

1984 991 1380 1106 conicto

1360 1110 lineto

1190 1143 lineto

837 1211 674 1373 conicto

512 1536 512 1817 conicto

512 2173 761 2366 conicto

1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto

end_ol grestore

gsave 19.542333 18.800000 translate 0.035278 -0.035278 scale

start_ol

576 2496 moveto

1600 2496 lineto

1600 320 lineto

2432 320 lineto

2432 0 lineto

384 0 lineto

384 320 lineto

1216 320 lineto

1216 2176 lineto

576 2176 lineto

576 2496 lineto

1216 3520 moveto

1600 3520 lineto

1600 3008 lineto

1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 19.906400 18.800000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 20.270467 18.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 20.634533 18.800000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto

1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 20.998600 18.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 21.362667 18.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto

384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 21.726733 18.800000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 22.090800 18.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto

741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 22.454867 18.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 22.818933 18.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 23.183000 18.800000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 23.547067 18.800000 translate 0.035278 -0.035278 scale

start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 23.911133 18.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 24.275200 18.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 24.639267 18.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto

832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 25.003333 18.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.800000 19.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 19.600000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto

2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 7.528133 19.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 7.892200 19.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore

gsave 8.256267 19.600000 translate 0.035278 -0.035278 scale

start_ol

2368 64 moveto

2204 0 2030 -32 conicto

1856 -64 1674 -64 conicto

1098 -64 773 284 conicto

448 632 448 1248 conicto

448 1864 773 2212 conicto

1098 2560 1674 2560 conicto

1854 2560 2025 2528 conicto

2196 2497 2368 2432 conicto

2368 1984 lineto

2208 2119 2047 2179 conicto

1886 2240 1683 2240 conicto

1304 2240 1100 1983 conicto

896 1726 896 1248 conicto

896 772 1101 514 conicto

1306 256 1683 256 conicto

1893 256 2059 318 conicto

2226 381 2368 512 conicto

2368 64 lineto

end_ol grestore

gsave 8.620333 19.600000 translate 0.035278 -0.035278 scale

start_ol

2496 1352 moveto

2496 1152 lineto

688 1152 lineto

688 1139 lineto

688 717 901 486 conicto

1114 256 1501 256 conicto

1697 256 1911 319 conicto

2125 383 2368 512 conicto

2368 128 lineto

2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto

912 -64 584 285 conicto

256 634 256 1248 conicto

256 1846 582 2203 conicto

908 2560 1452 2560 conicto

1936 2560 2216 2236 conicto

2496 1912 2496 1352 conicto

2112 1472 moveto

2103 1848 1934 2044 conicto

1766 2240 1450 2240 conicto

1141 2240 941 2036 conicto

741 1832 704 1470 conicto

2112 1472 lineto

end_ol grestore

gsave 8.984400 19.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 9.348467 19.600000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto

753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 9.712533 19.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 10.076600 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto

1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 10.440667 19.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 10.804733 19.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto

2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 11.168800 19.600000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto
2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 11.532867 19.600000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 11.896933 19.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 12.261000 19.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 12.625067 19.600000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 12.989133 19.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto

1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 13.353200 19.600000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 13.717267 19.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 14.081333 19.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 14.445400 19.600000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto

1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 14.809467 19.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 15.173533 19.600000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 15.537600 19.600000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto

1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 15.901667 19.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto

960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 16.265733 19.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 16.629800 19.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 16.993867 19.600000 translate 0.035278 -0.035278 scale
start_of
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto

1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_of grestore
gsave 17.357933 19.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 17.722000 19.600000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto

2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 18.086067 19.600000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 18.450133 19.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto

912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 18.814200 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 19.178267 19.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto

1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 19.542333 19.600000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 19.906400 19.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.270467 19.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.634533 19.600000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 20.998600 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 21.362667 19.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 21.726733 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.090800 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto

512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 22.454867 19.600000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 22.818933 19.600000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 23.183000 19.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto

2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 23.547067 19.600000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 23.911133 19.600000 translate 0.035278 -0.035278 scale
start_of
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto

1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_of grestore
gsave 24.275200 19.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 24.639267 19.600000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto

2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 25.003333 19.600000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 25.367400 19.600000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 25.731467 19.600000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 26.095533 19.600000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 26.459600 19.600000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 26.823667 19.600000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto

end_of grestore
gsave 27.187733 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 27.551800 19.600000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 27.915867 19.600000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 28.279933 19.600000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto

1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 28.644000 19.600000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 29.008067 19.600000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 29.372133 19.600000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto

2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 29.736200 19.600000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 6.800000 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.164067 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.528133 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.892200 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.256267 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.620333 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.984400 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.348467 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.712533 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave 10.076600 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.440667 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.804733 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.168800 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.532867 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.896933 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.261000 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.625067 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.989133 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.353200 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.717267 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.081333 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.445400 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.809467 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.173533 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 15.537600 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave 15.901667 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.265733 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.629800 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 16.993867 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.357933 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.722000 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.086067 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.450133 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.814200 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.178267 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.542333 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.906400 20.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto

1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 20.270467 20.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 20.634533 20.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 20.998600 20.200000 translate 0.035278 -0.035278 scale
start_of
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto

2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 21.362667 20.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 21.726733 20.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto

1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 22.090800 20.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 22.454867 20.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 22.818933 20.200000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 23.183000 20.200000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto

2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore
gsave 23.547067 20.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 23.911133 20.200000 translate 0.035278 -0.035278 scale
start_of
768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 24.275200 20.200000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto

end_of grestore
gsave 24.639267 20.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 25.003333 20.200000 translate 0.035278 -0.035278 scale
start_of
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto

end_of grestore
gsave 25.367400 20.200000 translate 0.035278 -0.035278 scale
start_of
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 25.731467 20.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 26.095533 20.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
gsave 26.459600 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 26.823667 20.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 27.187733 20.200000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto

1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 27.551800 20.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 27.915867 20.200000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto

999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 28.279933 20.200000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 28.644000 20.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 29.008067 20.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 29.372133 20.200000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto

448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 29.736200 20.200000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 30.100267 20.200000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 30.464333 20.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto

2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 30.828400 20.200000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore

gsave 31.192467 20.200000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 31.556533 20.200000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
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256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 31.920600 20.200000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore

gsave 32.284667 20.200000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 32.648733 20.200000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 33.012800 20.200000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto

end_of grestore
gsave 33.376867 20.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 33.740933 20.200000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 34.105000 20.200000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
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end_of grestore
gsave 34.469067 20.200000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
showpage

%%EndDocument

@endspecial 186 x(The)37 b(functions)h(that)g(need)g(to)g(b)s(e)f
(implemen)m(ted)i(are)f(the)g(ones)g(resp)s(onsible)f(for)g(in)m
(terpreting)i(the)150 5340 y(handshak)m(e)e(proto)s(col)g(messages.)62
b(It)37 b(is)g(common)g(for)g(suc)m(h)g(functions)f(to)i(read)f(data)g
(from)g(one)g(or)p eop end

%%Page: 298 304

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y Fs(auth_info_t)27 b FB(structures.)150 542 y(Simple)36
b(examples)i(of)f(existing)g(authen)m(tication)i(metho)s(ds)d(can)h(b)s
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%!PS-Adobe-2.0 EPSF-2.0
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/P /Q /R /S /T /U /V /W /X /Y
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/threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
/Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
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/Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
/ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
/eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
/uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
/cp {closepath} bind def
/c {curveto} bind def
/f {fill} bind def
/a {arc} bind def
/ef {eofill} bind def
/ex {exch} bind def
/gr {grestore} bind def
/gs {gsave} bind def
/sa {save} bind def
/rs {restore} bind def
/l {lineto} bind def
/m {moveto} bind def

```



```

/rm {rmoveto} bind def
/n {newpath} bind def
/s {stroke} bind def
/sh {show} bind def
/slc {setlinecap} bind def
/slj {setlinejoin} bind def
/slw {setlinewidth} bind def
/srgb {setrgbcolor} bind def
/rot {rotate} bind def
/sc {scale} bind def
/sd {setdash} bind def
/ff {findfont} bind def
/sf {setfont} bind def
/scf {scalefont} bind def
/sw {stringwidth pop} bind def
/tr {translate} bind def

/ellipsedict 8 dict def
ellipsedict /mtrx matrix put
/ellipse
{ ellipsedict begin
  /endangle exch def
  /startangle exch def
  /yrad exch def
  /xrad exch def
  /y exch def
  /x exch def /savematrix mtrx currentmatrix def
  x y tr xrad yrad sc
  0 0 1 startangle endangle arc
  savematrix setmatrix
  end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup

```

```

4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
  /to_y exch def
  /to_x exch def
  /conic_cntrl_y exch def
  /conic_cntrl_x exch def
  currentpoint
  /p0_y exch def
  /p0_x exch def
  /p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
  /p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
  /p2_x p1_x to_x p0_x sub 1 3 div mul add def
  /p2_y p1_y to_y p0_y sub 1 3 div mul add def
  p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
-4.600000 -13.150000 translate
%%EndProlog

0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 4.650000 7.900000 m 4.650000 9.300000 l 28.000000 9.300000 l 28.000000 7.900000 l f
0.000000 0.000000 0.000000 srgb
n 4.650000 7.900000 m 4.650000 9.300000 l 28.000000 9.300000 l 28.000000 7.900000 l cp s
gsave 13.395533 8.900000 translate 0.035278 -0.035278 scale
start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto

```

2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_of grestore
gsave 13.912000 8.900000 translate 0.035278 -0.035278 scale
start_of
1253 1605 moveto
128 3136 lineto
1183 3136 lineto
1820 2206 lineto
2466 3136 lineto
3520 3136 lineto
2396 1610 lineto
3584 0 lineto
2525 0 lineto
1820 992 lineto
1124 0 lineto
64 0 lineto
1253 1605 lineto
end_of grestore
gsave 14.403067 8.900000 translate 0.035278 -0.035278 scale
start_of
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_of grestore
gsave 14.767133 8.900000 translate 0.035278 -0.035278 scale

start_ol
3648 1575 moveto
3648 1280 lineto
1280 1280 lineto
1318 928 1540 752 conicto
1763 576 2163 576 conicto
2486 576 2824 671 conicto
3163 766 3520 960 conicto
3520 192 lineto
3159 65 2798 0 conicto
2438 -64 2076 -64 conicto
1213 -64 734 365 conicto
256 794 256 1568 conicto
256 2329 722 2764 conicto
1189 3200 2008 3200 conicto
2754 3200 3201 2758 conicto
3648 2316 3648 1575 conicto
2624 1920 moveto
2624 2207 2453 2383 conicto
2283 2560 2007 2560 conicto
1710 2560 1523 2395 conicto
1337 2230 1291 1920 conicto
2624 1920 lineto
end_ol grestore
gsave 15.283600 8.900000 translate 0.035278 -0.035278 scale
start_ol
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_ol grestore
gsave 15.825467 8.900000 translate 0.035278 -0.035278 scale

start_ol
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 16.282667 8.900000 translate 0.035278 -0.035278 scale
start_ol
512 3136 moveto
1536 3136 lineto
1536 0 lineto
512 0 lineto
512 3136 lineto
512 4352 moveto
1536 4352 lineto
1536 3520 lineto
512 3520 lineto
512 4352 lineto
end_ol grestore
gsave 16.545133 8.900000 translate 0.035278 -0.035278 scale
start_ol
1988 2496 moveto
1642 2496 1461 2257 conicto

1280 2018 1280 1568 conicto
1280 1118 1461 879 conicto
1642 640 1988 640 conicto
2328 640 2508 879 conicto
2688 1118 2688 1568 conicto
2688 2018 2508 2257 conicto
2328 2496 1988 2496 conicto
1988 3200 moveto
2800 3200 3256 2767 conicto
3712 2334 3712 1568 conicto
3712 802 3256 369 conicto
2800 -64 1988 -64 conicto
1173 -64 714 369 conicto
256 802 256 1568 conicto
256 2334 714 2767 conicto
1173 3200 1988 3200 conicto
end_of grestore
gsave 17.070067 8.900000 translate 0.035278 -0.035278 scale
start_of
3648 1891 moveto
3648 0 lineto
2624 0 lineto
2624 308 lineto
2624 1447 lineto
2624 1849 2607 2001 conicto
2590 2154 2547 2226 conicto
2491 2324 2395 2378 conicto
2299 2432 2176 2432 conicto
1877 2432 1706 2192 conicto
1536 1952 1536 1528 conicto
1536 0 lineto
512 0 lineto
512 3136 lineto
1536 3136 lineto
1536 2688 lineto
1758 2950 2008 3075 conicto
2259 3200 2562 3200 conicto
3095 3200 3371 2865 conicto
3648 2530 3648 1891 conicto
end_of grestore
gsave 17.611933 8.900000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto

1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto
737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_of grestore
gsave 18.069133 8.900000 translate 0.035278 -0.035278 scale
start_of
2880 -832 moveto
2880 -1344 lineto
0 -1344 lineto
0 -832 lineto
2880 -832 lineto
end_of grestore
gsave 18.450133 8.900000 translate 0.035278 -0.035278 scale
start_of
3008 3072 moveto
3008 2304 lineto
2690 2432 2394 2496 conicto
2098 2560 1835 2560 conicto
1553 2560 1416 2490 conicto
1280 2420 1280 2274 conicto
1280 2156 1380 2093 conicto
1480 2030 1739 2000 conicto
1907 1975 lineto
2671 1876 2935 1651 conicto
3200 1426 3200 946 conicto
3200 443 2827 189 conicto
2455 -64 1717 -64 conicto
1404 -64 1070 -16 conicto

737 32 384 128 conicto
384 896 lineto
685 736 1002 656 conicto
1320 576 1646 576 conicto
1942 576 2091 661 conicto
2240 746 2240 913 conicto
2240 1054 2142 1123 conicto
2045 1192 1755 1231 conicto
1586 1254 lineto
884 1336 602 1559 conicto
320 1783 320 2237 conicto
320 2726 668 2963 conicto
1017 3200 1737 3200 conicto
2020 3200 2331 3169 conicto
2642 3138 3008 3072 conicto
end_ol grestore
gsave 18.907333 8.900000 translate 0.035278 -0.035278 scale
start_ol
1600 4032 moveto
1600 3136 lineto
2624 3136 lineto
2624 2432 lineto
1600 2432 lineto
1600 1082 lineto
1600 861 1688 782 conicto
1777 704 2038 704 conicto
2560 704 lineto
2560 0 lineto
1689 0 lineto
1082 0 829 246 conicto
576 493 576 1082 conicto
576 2432 lineto
64 2432 lineto
64 3136 lineto
576 3136 lineto
576 4032 lineto
1600 4032 lineto
end_ol grestore
1.000000 1.000000 1.000000 srgb
n 4.650000 9.300000 m 4.650000 9.700000 l 28.000000 9.700000 l 28.000000 9.300000 l f
0.000000 0.000000 0.000000 srgb
n 4.650000 9.300000 m 4.650000 9.700000 l 28.000000 9.700000 l 28.000000 9.300000 l cp s
1.000000 1.000000 1.000000 srgb
n 4.650000 9.700000 m 4.650000 13.100000 l 28.000000 13.100000 l 28.000000 9.700000 l f
0.000000 0.000000 0.000000 srgb
n 4.650000 9.700000 m 4.650000 13.100000 l 28.000000 13.100000 l 28.000000 9.700000 l cp s
gsave 4.800000 10.400000 translate 0.035278 -0.035278 scale
start_ol

end_of grestore
gsave 5.164067 10.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 5.528133 10.400000 translate 0.035278 -0.035278 scale
start_of
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto
256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_of grestore
gsave 5.892200 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto

2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 6.256267 10.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 6.620333 10.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1984 moveto
2487 2085 2346 2130 conicto
2205 2176 2035 2176 conicto
1637 2176 1426 1936 conicto
1216 1696 1216 1243 conicto
1216 0 lineto
832 0 lineto
832 2496 lineto
1216 2496 lineto
1216 2010 lineto
1322 2276 1543 2418 conicto
1765 2560 2068 2560 conicto
2226 2560 2362 2529 conicto
2498 2498 2624 2432 conicto
2624 1984 lineto
end_ol grestore
gsave 6.984400 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto

688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 7.348467 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 7.712533 10.400000 translate 0.035278 -0.035278 scale
start_ol
256 2496 moveto
682 2496 lineto
1407 401 lineto

2135 2496 lineto
2560 2496 lineto
1673 0 lineto
1144 0 lineto
256 2496 lineto
end_ol grestore
gsave 8.076600 10.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 8.440667 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_ol grestore
gsave 8.804733 10.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto

2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 9.168800 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 9.532867 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto

2368 64 lineto
end_of grestore
gsave 9.896933 10.400000 translate 0.035278 -0.035278 scale
start_of
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto
1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_of grestore
gsave 10.261000 10.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 10.625067 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.989133 10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.353200 10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 11.717267 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto

688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 12.081333 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto

1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 12.445400 10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 12.809467 10.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto

576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.173533 10.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 13.537600 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore

gsave 13.901667 10.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 14.265733 10.400000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore

gsave 14.629800 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.993867 10.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 15.357933 10.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 15.722000 10.400000 translate 0.035278 -0.035278 scale
start_of
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_of grestore
gsave 16.086067 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto

752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 16.450133 10.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 16.814200 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 17.178267 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 17.542333 10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto

753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 17.906400 10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore

gsave 18.270467 10.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 18.634533 10.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 18.998600 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto

1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 19.362667 10.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 19.726733 10.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 20.090800 10.400000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto

960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 20.454867 10.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 20.818933 10.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 21.183000 10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 21.547067 10.400000 translate 0.035278 -0.035278 scale
start_ol

2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 21.911133 10.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto

2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 22.275200 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 22.639267 10.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto

2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 23.003333 10.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 23.367400 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto

1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_of grestore
gsave 23.731467 10.400000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 24.095533 10.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_of grestore
gsave 24.459600 10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 24.823667 10.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto

960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 25.187733 10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 25.551800 10.400000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 25.915867 10.400000 translate 0.035278 -0.035278 scale
start_ol
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto

2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_ol grestore
gsave 26.279933 10.400000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 26.644000 10.400000 translate 0.035278 -0.035278 scale
start_ol

768 1248 moveto
768 756 936 506 conicto
1105 256 1437 256 conicto
1769 256 1940 507 conicto
2112 759 2112 1248 conicto
2112 1737 1940 1988 conicto
1769 2240 1437 2240 conicto
1105 2240 936 1989 conicto
768 1739 768 1248 conicto
2112 293 moveto
2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_ol grestore
gsave 27.008067 10.400000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 27.372133 10.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 27.736200 10.400000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 28.100267 10.400000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto

1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_of grestore
gsave 4.800000 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 5.164067 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 5.528133 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 5.892200 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.256267 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.620333 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 6.984400 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.348467 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 7.712533 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.076600 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.440667 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 8.804733 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 9.168800 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 9.532867 11.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore

gsave 9.896933 11.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.261000 11.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 10.625067 11.000000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.989133 11.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.353200 11.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto

2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 11.717267 11.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 12.081333 11.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.445400 11.000000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto

2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 12.809467 11.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 13.173533 11.000000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto

1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 13.537600 11.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 13.901667 11.000000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 14.265733 11.000000 translate 0.035278 -0.035278 scale
start_ol

2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 14.629800 11.000000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 14.993867 11.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto

2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 15.357933 11.000000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 15.722000 11.000000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto

448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 16.086067 11.000000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 16.450133 11.000000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 16.814200 11.000000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto

1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 17.178267 11.000000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 17.542333 11.000000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 17.906400 11.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.270467 11.000000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto

1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 18.634533 11.000000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 18.998600 11.000000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 4.800000 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.164067 11.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 5.528133 11.800000 translate 0.035278 -0.035278 scale
start_ol
2560 2496 moveto
1638 1301 lineto
2624 0 lineto
2145 0 lineto
1406 1000 lineto
671 0 lineto
192 0 lineto
1177 1301 lineto

256 2496 lineto
724 2496 lineto
1406 1594 lineto
2084 2496 lineto
2560 2496 lineto
end_of grestore
gsave 5.892200 11.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 6.256267 11.800000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 6.620333 11.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 6.984400 11.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 7.348467 11.800000 translate 0.035278 -0.035278 scale
start_ol

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 7.712533 11.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 8.076600 11.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto

0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 8.440667 11.800000 translate 0.035278 -0.035278 scale
start_of
2368 3520 moveto
2368 3200 lineto
1882 3200 lineto
1651 3200 1561 3099 conicto
1472 2999 1472 2742 conicto
1472 2496 lineto
2368 2496 lineto
2368 2176 lineto
1472 2176 lineto
1472 0 lineto
1088 0 lineto
1088 2176 lineto
384 2176 lineto
384 2496 lineto
1088 2496 lineto
1088 2691 lineto
1088 3117 1274 3318 conicto
1460 3520 1854 3520 conicto
2368 3520 lineto
end_of grestore
gsave 8.804733 11.800000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 9.168800 11.800000 translate 0.035278 -0.035278 scale
start_of

2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 9.532867 11.800000 translate 0.035278 -0.035278 scale
start_ol
2368 64 moveto
2204 0 2030 -32 conicto
1856 -64 1674 -64 conicto
1098 -64 773 284 conicto
448 632 448 1248 conicto
448 1864 773 2212 conicto
1098 2560 1674 2560 conicto
1854 2560 2025 2528 conicto
2196 2497 2368 2432 conicto
2368 1984 lineto
2208 2119 2047 2179 conicto
1886 2240 1683 2240 conicto
1304 2240 1100 1983 conicto
896 1726 896 1248 conicto
896 772 1101 514 conicto
1306 256 1683 256 conicto
1893 256 2059 318 conicto
2226 381 2368 512 conicto
2368 64 lineto
end_ol grestore
gsave 9.896933 11.800000 translate 0.035278 -0.035278 scale
start_ol
1984 3520 moveto
1694 3008 1551 2499 conicto
1408 1990 1408 1474 conicto
1408 961 1551 451 conicto
1694 -59 1984 -576 conicto
1635 -576 lineto

1294 -41 1127 465 conicto
960 972 960 1474 conicto
960 1975 1127 2482 conicto
1294 2990 1635 3520 conicto
1984 3520 lineto
end_ol grestore
gsave 10.261000 11.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 10.625067 11.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.989133 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore

gsave 11.353200 11.800000 translate 0.035278 -0.035278 scale

start_ol

2240 2432 moveto

2240 2048 lineto

2054 2144 1865 2192 conicto

1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto

896 2059 896 1873 conicto

896 1706 1009 1623 conicto

1123 1540 1575 1461 conicto

1757 1429 lineto

2058 1370 2213 1193 conicto

2368 1017 2368 734 conicto

2368 359 2100 147 conicto

1832 -64 1355 -64 conicto

1166 -64 959 -32 conicto

753 0 512 64 conicto

512 512 lineto

752 385 971 320 conicto

1191 256 1387 256 conicto

1672 256 1828 371 conicto

1984 487 1984 693 conicto

1984 991 1380 1106 conicto

1360 1110 lineto

1190 1143 lineto

837 1211 674 1373 conicto

512 1536 512 1817 conicto

512 2173 761 2366 conicto

1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto

2057 2496 2240 2432 conicto

end_ol grestore

gsave 11.717267 11.800000 translate 0.035278 -0.035278 scale

start_ol

2496 1352 moveto

2496 1152 lineto

688 1152 lineto

688 1139 lineto

688 717 901 486 conicto

1114 256 1501 256 conicto

1697 256 1911 319 conicto

2125 383 2368 512 conicto

2368 128 lineto

2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto

912 -64 584 285 conicto

256 634 256 1248 conicto

256 1846 582 2203 conicto

908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 12.081333 11.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 12.445400 11.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto

1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 12.809467 11.800000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.173533 11.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto

1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_ol grestore
gsave 13.537600 11.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 13.901667 11.800000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto

1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 14.265733 11.800000 translate 0.035278 -0.035278 scale
start_ol
2048 1282 moveto
2048 1752 1880 1996 conicto
1713 2240 1393 2240 conicto
1057 2240 880 1996 conicto
704 1752 704 1282 conicto
704 813 881 566 conicto
1059 320 1397 320 conicto
1713 320 1880 567 conicto
2048 815 2048 1282 conicto
2432 167 moveto
2432 -388 2144 -674 conicto
1856 -960 1297 -960 conicto
1114 -960 913 -927 conicto
713 -895 512 -832 conicto
512 -448 lineto
759 -546 960 -593 conicto
1162 -640 1330 -640 conicto
1706 -640 1877 -460 conicto
2048 -280 2048 111 conicto
2048 128 lineto
2048 396 lineto
1941 196 1755 98 conicto
1570 0 1304 0 conicto
826 0 541 348 conicto
256 696 256 1279 conicto
256 1864 541 2212 conicto
826 2560 1304 2560 conicto
1567 2560 1750 2470 conicto
1933 2381 2048 2195 conicto
2048 2496 lineto
2432 2496 lineto
2432 167 lineto
end_ol grestore
gsave 14.629800 11.800000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 14.993867 11.800000 translate 0.035278 -0.035278 scale
start_ol
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_ol grestore
gsave 15.357933 11.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto

960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 15.722000 11.800000 translate 0.035278 -0.035278 scale
start_ol
1408 889 moveto
1408 607 1511 463 conicto
1615 320 1816 320 conicto
2304 320 lineto
2304 0 lineto
1775 0 lineto
1417 0 1220 232 conicto
1024 464 1024 889 conicto
1024 3200 lineto
192 3200 lineto
192 3520 lineto
1408 3520 lineto
1408 889 lineto
end_ol grestore
gsave 16.086067 11.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto

1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 16.450133 11.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 16.814200 11.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 17.178267 11.800000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 17.542333 11.800000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto

512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 17.906400 11.800000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 18.270467 11.800000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto

1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 18.634533 11.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 18.998600 11.800000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto

2368 2071 2368 1575 conicto
end_ol grestore
gsave 19.362667 11.800000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 19.726733 11.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 20.090800 11.800000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 20.454867 11.800000 translate 0.035278 -0.035278 scale
start_ol
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto

1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto
end_of grestore
gsave 20.818933 11.800000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 21.183000 11.800000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto

1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 21.547067 11.800000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 21.911133 11.800000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto
826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_ol grestore
gsave 22.275200 11.800000 translate 0.035278 -0.035278 scale
start_ol
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto

2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_ol grestore
gsave 22.639267 11.800000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore

gsave 23.003333 11.800000 translate 0.035278 -0.035278 scale

start_ol

1633 1280 moveto

1485 1280 lineto

1097 1280 900 1148 conicto

704 1016 704 754 conicto

704 518 851 387 conicto

999 256 1259 256 conicto

1626 256 1835 502 conicto

2045 749 2048 1184 conicto

2048 1280 lineto

1633 1280 lineto

2432 1449 moveto

2432 0 lineto

2048 0 lineto

2048 353 lineto

1910 139 1701 37 conicto

1493 -64 1194 -64 conicto

796 -64 558 154 conicto

320 372 320 739 conicto

320 1161 607 1380 conicto

895 1600 1452 1600 conicto

2048 1600 lineto

2048 1662 lineto

2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto

724 2109 512 1984 conicto

512 2368 lineto

744 2464 956 2512 conicto

1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto

2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto

2432 1771 2432 1449 conicto

end_ol grestore

gsave 23.367400 11.800000 translate 0.035278 -0.035278 scale

start_ol

1088 2368 moveto

1664 2368 lineto

1664 1664 lineto

1088 1664 lineto

1088 2368 lineto

1088 704 moveto

1664 704 lineto

1664 0 lineto

1088 0 lineto

1088 704 lineto

end_of grestore
gsave 23.731467 11.800000 translate 0.035278 -0.035278 scale
start_of
1407 2240 moveto
1092 2240 930 1989 conicto
768 1739 768 1248 conicto
768 759 930 507 conicto
1092 256 1407 256 conicto
1724 256 1886 507 conicto
2048 759 2048 1248 conicto
2048 1739 1886 1989 conicto
1724 2240 1407 2240 conicto
1407 2560 moveto
1935 2560 2215 2223 conicto
2496 1886 2496 1248 conicto
2496 607 2217 271 conicto
1938 -64 1407 -64 conicto
879 -64 599 271 conicto
320 607 320 1248 conicto
320 1886 599 2223 conicto
879 2560 1407 2560 conicto

end_of grestore
gsave 24.095533 11.800000 translate 0.035278 -0.035278 scale
start_of
832 288 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2207 lineto
944 2379 1131 2469 conicto
1319 2560 1563 2560 conicto
2059 2560 2341 2209 conicto
2624 1859 2624 1239 conicto
2624 630 2340 283 conicto
2057 -64 1563 -64 conicto
1313 -64 1126 26 conicto
940 117 832 288 conicto
2176 1248 moveto
2176 1739 2008 1989 conicto
1840 2240 1509 2240 conicto
1175 2240 1003 1988 conicto
832 1737 832 1248 conicto
832 761 1003 508 conicto
1175 256 1509 256 conicto
1840 256 2008 506 conicto
2176 756 2176 1248 conicto
end_of grestore

gsave 24.459600 11.800000 translate 0.035278 -0.035278 scale

start_ol

1633 1280 moveto

1485 1280 lineto

1097 1280 900 1148 conicto

704 1016 704 754 conicto

704 518 851 387 conicto

999 256 1259 256 conicto

1626 256 1835 502 conicto

2045 749 2048 1184 conicto

2048 1280 lineto

1633 1280 lineto

2432 1449 moveto

2432 0 lineto

2048 0 lineto

2048 353 lineto

1910 139 1701 37 conicto

1493 -64 1194 -64 conicto

796 -64 558 154 conicto

320 372 320 739 conicto

320 1161 607 1380 conicto

895 1600 1452 1600 conicto

2048 1600 lineto

2048 1662 lineto

2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto

1172 2240 948 2174 conicto

724 2109 512 1984 conicto

512 2368 lineto

744 2464 956 2512 conicto

1169 2560 1369 2560 conicto

1686 2560 1910 2470 conicto

2134 2380 2272 2201 conicto

2359 2091 2395 1931 conicto

2432 1771 2432 1449 conicto

end_ol grestore

gsave 24.823667 11.800000 translate 0.035278 -0.035278 scale

start_ol

768 1248 moveto

768 756 936 506 conicto

1105 256 1437 256 conicto

1769 256 1940 507 conicto

2112 759 2112 1248 conicto

2112 1737 1940 1988 conicto

1769 2240 1437 2240 conicto

1105 2240 936 1989 conicto

768 1739 768 1248 conicto

2112 293 moveto

2001 120 1814 28 conicto
1628 -64 1381 -64 conicto
890 -64 605 283 conicto
320 630 320 1239 conicto
320 1859 603 2209 conicto
887 2560 1381 2560 conicto
1625 2560 1812 2469 conicto
1999 2379 2112 2207 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 293 lineto
end_of grestore
gsave 25.187733 11.800000 translate 0.035278 -0.035278 scale
start_of
448 921 moveto
448 2496 lineto
832 2496 lineto
832 921 lineto
832 578 958 417 conicto
1085 256 1350 256 conicto
1657 256 1820 464 conicto
1984 672 1984 1059 conicto
1984 2496 lineto
2368 2496 lineto
2368 0 lineto
1984 0 lineto
1984 340 lineto
1871 141 1678 38 conicto
1485 -64 1226 -64 conicto
833 -64 640 180 conicto
448 425 448 921 conicto
end_of grestore
gsave 25.551800 11.800000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto

256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 25.915867 11.800000 translate 0.035278 -0.035278 scale
start_ol
2432 2792 moveto
1615 2368 lineto
2432 1943 lineto
2302 1728 lineto
1536 2172 lineto
1536 1344 lineto
1280 1344 lineto
1280 2172 lineto
514 1728 lineto
384 1943 lineto
1200 2368 lineto
384 2792 lineto
514 3008 lineto
1280 2565 lineto
1280 3392 lineto
1536 3392 lineto
1536 2565 lineto
2302 3008 lineto
2432 2792 lineto
end_ol grestore
gsave 26.279933 11.800000 translate 0.035278 -0.035278 scale
start_ol
1152 704 moveto
1728 704 lineto
1728 232 lineto
1280 -640 lineto
960 -640 lineto
1152 232 lineto
1152 704 lineto
end_ol grestore
gsave 4.800000 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.164067 12.400000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave 5.528133 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 5.892200 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.256267 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.620333 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.984400 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.348467 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 7.712533 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.076600 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.440667 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 8.804733 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.168800 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.532867 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.896933 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.261000 12.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto

384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 10.625067 12.400000 translate 0.035278 -0.035278 scale
start_ol
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_ol grestore
gsave 10.989133 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.353200 12.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2207 moveto
2048 3520 lineto
2432 3520 lineto
2432 0 lineto
2048 0 lineto
2048 288 lineto
1935 117 1749 26 conicto
1563 -64 1319 -64 conicto
824 -64 540 287 conicto
256 639 256 1257 conicto
256 1866 541 2213 conicto

826 2560 1319 2560 conicto
1565 2560 1753 2469 conicto
1941 2379 2048 2207 conicto
704 1248 moveto
704 756 873 506 conicto
1042 256 1373 256 conicto
1703 256 1875 508 conicto
2048 761 2048 1248 conicto
2048 1737 1875 1988 conicto
1703 2240 1373 2240 conicto
1042 2240 873 1989 conicto
704 1739 704 1248 conicto
end_of grestore
gsave 11.717267 12.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto
1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto

end_of grestore
gsave 12.081333 12.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
gsave 12.445400 12.400000 translate 0.035278 -0.035278 scale
start_of
1633 1280 moveto
1485 1280 lineto
1097 1280 900 1148 conicto
704 1016 704 754 conicto
704 518 851 387 conicto
999 256 1259 256 conicto
1626 256 1835 502 conicto
2045 749 2048 1184 conicto
2048 1280 lineto
1633 1280 lineto
2432 1449 moveto
2432 0 lineto
2048 0 lineto
2048 353 lineto
1910 139 1701 37 conicto
1493 -64 1194 -64 conicto
796 -64 558 154 conicto
320 372 320 739 conicto
320 1161 607 1380 conicto
895 1600 1452 1600 conicto
2048 1600 lineto
2048 1662 lineto
2045 1966 1889 2103 conicto

1733 2240 1390 2240 conicto
1172 2240 948 2174 conicto
724 2109 512 1984 conicto
512 2368 lineto
744 2464 956 2512 conicto
1169 2560 1369 2560 conicto
1686 2560 1910 2470 conicto
2134 2380 2272 2201 conicto
2359 2091 2395 1931 conicto
2432 1771 2432 1449 conicto
end_of grestore
gsave 12.809467 12.400000 translate 0.035278 -0.035278 scale
start_of
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_of grestore
gsave 13.173533 12.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
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2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto
1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto

1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_of grestore
gsave 13.537600 12.400000 translate 0.035278 -0.035278 scale
start_of
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 13.901667 12.400000 translate 0.035278 -0.035278 scale
start_of
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_of grestore
gsave 14.265733 12.400000 translate 0.035278 -0.035278 scale
start_of
2496 1352 moveto
2496 1152 lineto
688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto

1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_of grestore
gsave 14.629800 12.400000 translate 0.035278 -0.035278 scale
start_of
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_of grestore
gsave 14.993867 12.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2054 2144 1865 2192 conicto
1677 2240 1481 2240 conicto
1186 2240 1041 2149 conicto
896 2059 896 1873 conicto
896 1706 1009 1623 conicto
1123 1540 1575 1461 conicto
1757 1429 lineto
2058 1370 2213 1193 conicto
2368 1017 2368 734 conicto
2368 359 2100 147 conicto
1832 -64 1355 -64 conicto
1166 -64 959 -32 conicto
753 0 512 64 conicto
512 512 lineto
752 385 971 320 conicto
1191 256 1387 256 conicto
1672 256 1828 371 conicto

1984 487 1984 693 conicto
1984 991 1380 1106 conicto
1360 1110 lineto
1190 1143 lineto
837 1211 674 1373 conicto
512 1536 512 1817 conicto
512 2173 761 2366 conicto
1011 2560 1472 2560 conicto
1678 2560 1867 2528 conicto
2057 2496 2240 2432 conicto
end_ol grestore
gsave 15.357933 12.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto
1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_ol grestore
gsave 15.722000 12.400000 translate 0.035278 -0.035278 scale
start_ol
512 2496 moveto
2304 2496 lineto
2304 2120 lineto
886 320 lineto
2304 320 lineto
2304 0 lineto
448 0 lineto
448 380 lineto
1877 2176 lineto
512 2176 lineto
512 2496 lineto
end_ol grestore
gsave 16.086067 12.400000 translate 0.035278 -0.035278 scale
start_ol
2496 1352 moveto
2496 1152 lineto

688 1152 lineto
688 1139 lineto
688 717 901 486 conicto
1114 256 1501 256 conicto
1697 256 1911 319 conicto
2125 383 2368 512 conicto
2368 128 lineto
2134 32 1916 -16 conicto
1698 -64 1496 -64 conicto
912 -64 584 285 conicto
256 634 256 1248 conicto
256 1846 582 2203 conicto
908 2560 1452 2560 conicto
1936 2560 2216 2236 conicto
2496 1912 2496 1352 conicto
2112 1472 moveto
2103 1848 1934 2044 conicto
1766 2240 1450 2240 conicto
1141 2240 941 2036 conicto
741 1832 704 1470 conicto
2112 1472 lineto
end_ol grestore
gsave 16.450133 12.400000 translate 0.035278 -0.035278 scale
start_ol
2304 -768 moveto
2304 -1088 lineto
0 -1088 lineto
0 -768 lineto
2304 -768 lineto
end_ol grestore
gsave 16.814200 12.400000 translate 0.035278 -0.035278 scale
start_ol
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto

960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_ol grestore
gsave 17.178267 12.400000 translate 0.035278 -0.035278 scale
start_ol
832 3520 moveto
1181 3520 lineto
1522 2990 1689 2482 conicto
1856 1975 1856 1474 conicto
1856 970 1689 462 conicto
1522 -46 1181 -576 conicto
832 -576 lineto
1122 -55 1265 455 conicto
1408 965 1408 1474 conicto
1408 1986 1265 2495 conicto
1122 3005 832 3520 conicto
end_ol grestore
gsave 17.542333 12.400000 translate 0.035278 -0.035278 scale
start_ol
1088 2368 moveto
1664 2368 lineto
1664 1664 lineto
1088 1664 lineto
1088 2368 lineto
1088 704 moveto
1664 704 lineto
1664 0 lineto
1088 0 lineto
1088 704 lineto
end_ol grestore
gsave 17.906400 12.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.270467 12.400000 translate 0.035278 -0.035278 scale
start_ol
576 2496 moveto
1600 2496 lineto
1600 320 lineto
2432 320 lineto
2432 0 lineto
384 0 lineto
384 320 lineto
1216 320 lineto
1216 2176 lineto
576 2176 lineto
576 2496 lineto
1216 3520 moveto

1600 3520 lineto
1600 3008 lineto
1216 3008 lineto
1216 3520 lineto
end_of grestore
gsave 18.634533 12.400000 translate 0.035278 -0.035278 scale
start_of
2368 1575 moveto
2368 0 lineto
1984 0 lineto
1984 1575 lineto
1984 1917 1858 2078 conicto
1733 2240 1466 2240 conicto
1161 2240 996 2032 conicto
832 1824 832 1436 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2160 lineto
944 2357 1136 2458 conicto
1328 2560 1591 2560 conicto
1982 2560 2175 2315 conicto
2368 2071 2368 1575 conicto
end_of grestore
gsave 18.998600 12.400000 translate 0.035278 -0.035278 scale
start_of
1344 3200 moveto
1344 2496 lineto
2304 2496 lineto
2304 2176 lineto
1344 2176 lineto
1344 816 lineto
1344 539 1451 429 conicto
1559 320 1828 320 conicto
2304 320 lineto
2304 0 lineto
1787 0 lineto
1333 0 1146 184 conicto
960 368 960 816 conicto
960 2176 lineto
256 2176 lineto
256 2496 lineto
960 2496 lineto
960 3200 lineto
1344 3200 lineto
end_of grestore
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(k)h(in)m(ternally)f(whether)f(they)g(op)s(erate)h(in)f(clien)m(t)i(or)
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(data)330 4975 y(\(b)s(oth)f(in)g(the)h(clien)m(t)h(and)d(serv)m(er\).)
330 5121 y(If)d(y)m(ou)h(receiv)m(e)i(length)e(\014elds)f(that)i(do)s
(esn't)e(matc)m(h,)j(return)c Fs(GNUTLS_E_UNEXPECTED_PACKET)o(_330
5230 y(LENGTH)p FB(.)42 b(If)30 b(y)m(ou)i(receiv)m(e)h(in)m(v)-5
b(alid)32 b(data,)g(return)e Fs(GNUTLS_E_RECEIVED_ILLEGAL)o(_PAR)o
(AMET)o(ER)p FB(.)330 5340 y(Y)-8 b(ou)31 b(can)g(use)f(other)g(error)g
(co)s(des)h(to)s(o.)41 b(Return)30 b(0)g(on)h(success.)p
eop end

TeXDict begin 300 305 bop 150 -116 a FB(Chapter)30 b(12:)41
b(In)m(ternal)31 b(Arc)m(hitecture)h(of)e(Gn)m(uTLS)1637
b(300)330 299 y(The)30 b(function)g(t)m(typically)i(store)f(some)g
(information)f(in)h(the)f Fs(session)e FB(v)-5 b(ariable)32
b(for)e(later)h(usage.)330 408 y(If)g(y)m(ou)g(need)g(to)g(add)g(new)f
(\014elds)g(there,)i(c)m(hec)m(k)h Fs(tls_ext_st)28 b
FB(in)i Fs(gnutls_int.h)e FB(and)i(compare)330 518 y(with)g(existing)h
(TLS)f(extension)h(sp)s(eci\014c)f(v)-5 b(ariables.)330
669 y(Recall)40 b(that)g(b)s(oth)d(the)i(clien)m(t)h(and)f(serv)m(er)f
(b)s(oth)g(send)g(and)g(receiv)m(es)j(parameters,)g(and)d(y)m(our)330
778 y(co)s(de)33 b(most)f(lik)m(ely)i(will)f(need)f(to)h(do)f
(di\013eren)m(t)h(things)f(dep)s(ending)e(on)j(whic)m(h)f(mo)s(de)g(it)
g(is)h(in.)46 b(It)330 888 y(ma)m(y)27 b(b)s(e)e(useful)h(to)h(mak)m(e)
g(this)f(distinction)h(explicit)h(in)e(the)g(co)s(de.)40
b(Th)m(us,)26 b(for)g(example,)i(a)f(b)s(etter)330 998
y(template)32 b(than)e(ab)s(om)m(e)h(w)m(ould)g(b)s(e:)570
1148 y Fs(int)570 1258 y(_gnutls_foobar_recv_para)o(ms)42
b(\(gnutls_session_t)h(session,)1906 1367 y(const)k(opaque)f(*)h(data,)
1906 1477 y(size_t)f(data_size\))570 1587 y({)665 1696
y(if)i(\(session->security_para)o(mete)o(rs.)o(enti)o(ty)42
b(==)47 b(GNUTLS_CLIENT\))761 1806 y(return)f(foobar_recv_client)d
(\((session,)i(data,)h(data_size\));)665 1915 y(else)761
2025 y(return)g(foobar_recv_server)d(\(session,)i(data,)h(data_size\);)
570 2134 y({)570 2354 y(int)570 2463 y(_gnutls_foobar_send_para)o(ms)c
(\((gnutls_session_t)h(session,)1906 2573 y(opaque)j(*)i(data,)1906
2682 y(size_t)e(data_size\))570 2792 y({)665 2902 y(if)i
(\((session->security_para)o(mete)o(rs.)o(enti)o(ty)42
b(==)47 b(GNUTLS_CLIENT\))761 3011 y(return)f(foobar_send_client)d
(\((session,)i(data,)h(data_size\));)665 3121 y(else)761
3230 y(return)g(foobar_send_server)d(\(session,)i(data,)h(data_size\);)
570 3340 y({)330 3491 y FB(The)34 b(functions)g(used)f(w)m(ould)h(b)s
(e)g(declared)g(as)h Fs(static)d FB(functions,)j(of)g(the)f
(appropriate)g(proto-)330 3600 y(t)m(y)p)s(e,)d(in)f(the)g(same)h
(\014le.)330 3751 y(When)f(adding)g(the)h(\014les,)f(y)m(ou'll)i(need)e
(to)h(add)f(them)g(to)h Fs(Makefile.am)c FB(as)k(w)m(ell,)h(for)e
(example:)570 3902 y Fs(if)47 b(ENABLE_FOOBAR)570 4011
y(OBJECTS)f(+=)h(ext_foobar.c)570 4121 y(HFILES)f(+=)h(ext_foobar.h)
570 4230 y(endif)199 4381 y FB(5.)61 b(Add)29 b(API)i(functions)f(to)h
(enable/disable)g(the)g(extension.)330 4532 y(Normally)c(the)f(clien)m
(t)h(will)f(ha)m(v)m(e)i(one)e(API)f(to)i(request)f(use)g(of)g(the)g
(extension,)h(and)f(setting)h(some)330 4641 y(extension)36
b(sp)s(eci\014c)e(data.)55 b(The)35 b(serv)m(er)g(will)g(ha)m(v)m(e)i
(one)e(API)g(to)g(let)h(the)f(library)g(kno)m(w)g(that)g(it)330
4751 y(is)d(willing)h(to)g(accept)h(the)e(extension,)i(often)e(this)g
(is)h(implemen)m(ted)f(through)g(a)h(callbac)m(k)h(but)d(it)330
4861 y(do)s(esn't)f(ha)m(v)m(e)i(to.)330 5011 y(The)20
b(APIs)g(need)g(to)h(b)s(e)e(added)h(to)h Fs(includes/gnutls/gnutls.h)


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14 b FB(or)20 b Fs(includes/gnutls/extra.h)330 5121 y
FB(as)39 b(appropriate.)68 b(It)39 b(is)h(recommended)e(that)i(if)f(y)m
(ou)h(don't)f(ha)m(v)m(e)i(a)e(requiremen)m(t)h(to)g(use)f(the)330
5230 y(LGPLv2.1)p Fs(+)g FB(license)f(for)g(y)m(our)g(extension,)j
(that)d(y)m(ou)h(place)f(y)m(our)g(w)m(ork)g(under)f(the)h(GPLv3)p
Fs(+)330 5340 y FB(license)31 b(and)f(th)m(us)g(in)g(the)h(libgn)m
(utls-extra)h(library)-8 b(.)p eop end
%%Page: 301 307
TeXDict begin 301 306 bop 150 -116 a FB(Chapter)30 b(12:)41
b(In)m(ternal)31 b(Arc)m(hitecture)h(of)e(Gn)m(uTLS)1637
b(301)330 299 y(Y)-8 b(ou)33 b(can)f(implemen)m(t)h(the)g(API)f
(function)g(in)g(the)g Fs(ext_foobar.c)d FB(\014le,)34
b(or)e(if)g(that)h(\014le)f(ends)g(up)330 408 y(b)s(ecoming)f(rather)f
(larger,)h(add)f(a)h Fs(gnutls_foobar.c)26 b FB(\014le.)150
655 y FA(12.5)68 b(Certi\014cate)47 b(Handling)150 814
y FB(What)32 b(is)g(pro)m(vided)f(b)m(y)h(the)g(cert\014cate)h
(handling)e(functions)g(is)h(summarized)f(in)h(the)f(follo)m(wing)i
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/P /Q /R /S /T /U /V /W /X /Y
/Z /bracketleft /backslash /bracketright /asciicircum /underscore /quoteleft /a /b /c
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/space /exclamdown /cent /sterling /currency /yen /brokenbar /section /dieresis /copyright
 /ordfeminine /guillemotleft /logicalnot /hyphen /registered /macron /degree /plusminus /twosuperior /threesuperior
 /acute /mu /paragraph /periodcentered /cedilla /onesuperior /ordmasculine /guillemotright /onequarter /onehalf
 /threequarters /questiondown /Agrave /Aacute /Acircumflex /Atilde /Adieresis /Aring /AE /Ccedilla
 /Egrave /Eacute /Ecircumflex /Edieresis /Igrave /Iacute /Icircumflex /Idieresis /Eth /Ntilde
 /Ograve /Oacute /Ocircumflex /Otilde /Odieresis /multiply /Oslash /Ugrave /Uacute /Ucircumflex
 /Udieresis /Yacute /Thorn /germandbls /agrave /aacute /acircumflex /atilde /adieresis /aring
 /ae /ccedilla /egrave /eacute /ecircumflex /edieresis /igrave /iacute /icircumflex /idieresis
 /eth /ntilde /ograve /oacute /ocircumflex /otilde /odieresis /divide /oslash /ugrave
 /uacute /ucircumflex /udieresis /yacute /thorn /ydieresis] /isolatin1encoding exch def
 /cp {closepath} bind def
 /c {curveto} bind def
 /f {fill} bind def
 /a {arc} bind def
 /ef {eofill} bind def
 /ex {exch} bind def
 /gr {grestore} bind def
 /gs {gsave} bind def
 /sa {save} bind def
 /rs {restore} bind def
 /l {lineto} bind def
 /m {moveto} bind def
 /rm {rmoveto} bind def
 /n {newpath} bind def
 /s {stroke} bind def
 /sh {show} bind def
 /slc {setlinecap} bind def
 /slj {setlinejoin} bind def
 /slw {setlinewidth} bind def
 /srgb {setrgbcolor} bind def
 /rot {rotate} bind def
 /sc {scale} bind def
 /sd {setdash} bind def
 /ff {findfont} bind def
 /sf {setfont} bind def
 /scf {scalefont} bind def
 /sw {stringwidth pop} bind def
 /tr {translate} bind def

 /ellipsedict 8 dict def
 ellipsedict /mtrx matrix put
 /ellipse
 { ellipsedict begin
 /endangle exch def
 /startangle exch def
 /yrad exch def
 /xrad exch def
 /y exch def

```

/x exch def /savematrix mtrx currentmatrix def
x y tr xrad yrad sc
0 0 1 startangle endangle arc
savematrix setmatrix
end
} def

/mergeprocs {
dup length
3 -1 roll
dup
length
dup
5 1 roll
3 -1 roll
add
array cvx
dup
3 -1 roll
0 exch
putinterval
dup
4 2 roll
putinterval
} bind def
/dpi_x 300 def
/dpi_y 300 def
/conicto {
/to_y exch def
/to_x exch def
/conic_cntrl_y exch def
/conic_cntrl_x exch def
currentpoint
/p0_y exch def
/p0_x exch def
/p1_x p0_x conic_cntrl_x p0_x sub 2 3 div mul add def
/p1_y p0_y conic_cntrl_y p0_y sub 2 3 div mul add def
/p2_x p1_x to_x p0_x sub 1 3 div mul add def
/p2_y p1_y to_y p0_y sub 1 3 div mul add def
p1_x p1_y p2_x p2_y to_x to_y curveto
} bind def
/start_ol { gsave 1.1 dpi_x div dup scale } bind def
/end_ol { closepath fill grestore } bind def
28.346000 -28.346000 scale
10.698700 -33.350000 translate
%%EndProlog

```

0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 5.900000 9.000000 0.300000 0.300000 0 360 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 5.900000 9.000000 0.300000 0.300000 0 360 ellipse cp s
 n 4.700000 9.600000 m 7.100000 9.600000 l s
 n 5.900000 9.300000 m 5.900000 10.800000 l s
 n 5.900000 10.800000 m 4.700000 12.100000 l s
 n 5.900000 10.800000 m 7.100000 12.100000 l s
 gsave 3.597067 13.300000 translate 0.035278 -0.035278 scale
 start_ol
 2240 2432 moveto
 2240 2048 lineto
 2066 2144 1892 2192 conicto
 1718 2240 1541 2240 conicto
 1143 2240 923 1979 conicto
 704 1718 704 1248 conicto
 704 778 923 517 conicto
 1143 256 1541 256 conicto
 1718 256 1892 304 conicto
 2066 352 2240 448 conicto
 2240 64 lineto
 2068 0 1883 -32 conicto
 1698 -64 1490 -64 conicto
 924 -64 590 290 conicto
 256 645 256 1248 conicto
 256 1859 593 2209 conicto
 931 2560 1517 2560 conicto
 1707 2560 1888 2528 conicto
 2070 2496 2240 2432 conicto
 end_ol grestore
 gsave 3.935733 13.300000 translate 0.035278 -0.035278 scale
 start_ol
 2624 1352 moveto
 2624 1152 lineto
 704 1152 lineto
 731 715 960 485 conicto
 1189 256 1597 256 conicto
 1834 256 2056 320 conicto
 2278 384 2496 512 conicto
 2496 128 lineto
 2273 34 2039 -15 conicto
 1805 -64 1565 -64 conicto
 961 -64 608 284 conicto
 256 632 256 1225 conicto
 256 1839 595 2199 conicto
 934 2560 1509 2560 conicto

2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 4.308267 13.300000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 4.562267 13.300000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto

end_of grestore
gsave 4.799333 13.300000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 4.968667 13.300000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore
gsave 5.180333 13.300000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto

end_of grestore
gsave 5.349667 13.300000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto

end_of grestore
gsave 5.688333 13.300000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto

1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 6.060867 13.300000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 6.297933 13.300000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto

2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 6.670467 13.300000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 6.865200 13.300000 translate 0.035278 -0.035278 scale
start_ol
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_ol grestore
gsave 7.254667 13.300000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto

490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 7.576400 13.300000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 7.948933 13.300000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
 832 2496 lineto
 832 2112 lineto
 965 2339 1180 2449 conicto
 1396 2560 1702 2560 conicto
 1747 2560 1799 2560 conicto
 1852 2560 1917 2560 conicto
 1920 2112 lineto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 11.450000 -6.200000 m 11.450000 -3.600000 l 14.800000 -3.600000 l 14.800000 -6.200000 l f
 n 11.450000 -5.200000 m 11.450000 -5.200000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 14.800000 -5.200000 m 14.800000 -5.200000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 10.450000 -5.200000 m 10.450000 -4.600000 l 15.800000 -4.600000 l 15.800000 -5.200000 l f
 n 11.450000 -4.600000 m 11.450000 -4.600000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 14.800000 -4.600000 m 14.800000 -4.600000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 11.450000 -6.200000 m 14.800000 -6.200000 l s
 n 11.450000 -3.600000 m 14.800000 -3.600000 l s
 n 11.450000 -5.200000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 14.800000 -5.200000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 10.450000 -5.200000 m 10.450000 -4.600000 l s
 n 15.800000 -5.200000 m 15.800000 -4.600000 l s
 n 11.450000 -4.600000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 14.800000 -4.600000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 11.029500 -5.100000 translate 0.035278 -0.035278 scale
 start_of
 2112 1278 moveto
 2112 1736 1926 1988 conicto
 1741 2240 1407 2240 conicto
 1074 2240 889 1988 conicto
 704 1736 704 1278 conicto
 704 824 889 572 conicto
 1074 320 1407 320 conicto
 1741 320 1926 572 conicto
 2112 824 2112 1278 conicto
 2496 289 moveto
 2496 -343 2214 -651 conicto
 1933 -960 1352 -960 conicto
 1137 -960 946 -928 conicto
 755 -896 576 -832 conicto
 576 -448 lineto
 758 -546 936 -593 conicto
 1114 -640 1298 -640 conicto
 1707 -640 1909 -426 conicto
 2112 -212 2112 220 conicto

2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave 11.418967 -5.100000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 11.791500 -5.100000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 12.180967 -5.100000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 12.553500 -5.100000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto

1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 12.807500 -5.100000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 13.180033 -5.100000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto

1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 13.417100 -5.100000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 13.789633 -5.100000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.984367 -5.100000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto

1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 14.373833 -5.100000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 14.746367 -5.100000 translate 0.035278 -0.035278 scale
start_ol
192 2496 moveto
607 2496 lineto
1126 549 lineto
1643 2496 lineto
2133 2496 lineto
2652 549 lineto
3169 2496 lineto
3584 2496 lineto
2923 0 lineto

2433 0 lineto
1890 2046 lineto
1343 0 lineto
853 0 lineto
192 2496 lineto
end_of grestore
gsave 11.601000 -4.300000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 11.939667 -4.300000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto

1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 12.312200 -4.300000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 12.566200 -4.300000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 12.803267 -4.300000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto

832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 12.972600 -4.300000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 13.184267 -4.300000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 13.353600 -4.300000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto

2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 13.692267 -4.300000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto

1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 14.064800 -4.300000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 14.301867 -4.300000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto

750 1836 718 1470 conicto
 2240 1472 lineto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 11.250000 4.600000 m 11.250000 7.200000 l 16.500000 7.200000 l 16.500000 4.600000 l f
 n 11.250000 5.600000 m 11.250000 5.600000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 16.500000 5.600000 m 16.500000 5.600000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 10.250000 5.600000 m 10.250000 6.200000 l 17.500000 6.200000 l 17.500000 5.600000 l f
 n 11.250000 6.200000 m 11.250000 6.200000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 16.500000 6.200000 m 16.500000 6.200000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 11.250000 4.600000 m 16.500000 4.600000 l s
 n 11.250000 7.200000 m 16.500000 7.200000 l s
 n 11.250000 5.600000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 16.500000 5.600000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 10.250000 5.600000 m 10.250000 6.200000 l s
 n 17.500000 5.600000 m 17.500000 6.200000 l s
 n 11.250000 6.200000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 16.500000 6.200000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 10.979400 5.700000 translate 0.035278 -0.035278 scale
 start_of
 1559 1280 moveto
 1040 1280 840 1160 conicto
 640 1041 640 754 conicto
 640 525 790 390 conicto
 940 256 1198 256 conicto
 1554 256 1769 510 conicto
 1984 765 1984 1187 conicto
 1984 1280 lineto
 1559 1280 lineto
 2368 1449 moveto
 2368 0 lineto
 1984 0 lineto
 1984 384 lineto
 1842 154 1628 45 conicto
 1415 -64 1107 -64 conicto
 717 -64 486 154 conicto
 256 372 256 739 conicto
 256 1166 539 1383 conicto
 822 1600 1384 1600 conicto
 1984 1600 lineto
 1984 1641 lineto
 1984 1927 1796 2083 conicto
 1608 2240 1266 2240 conicto
 1049 2240 843 2192 conicto
 638 2144 448 2048 conicto

448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 11.351933 5.700000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 11.690600 5.700000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto

2070 2496 2240 2432 conicto
end_of grestore
gsave 12.029267 5.700000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 12.401800 5.700000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto

1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 12.723533 5.700000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 13.045267 5.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.240000 5.700000 translate 0.035278 -0.035278 scale
start_ol

2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 13.578667 5.700000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 13.951200 5.700000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto

1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 14.205200 5.700000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 14.442267 5.700000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto

448 3520 lineto
end_of grestore
gsave 14.611600 5.700000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore
gsave 14.823267 5.700000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 14.992600 5.700000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto

2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 15.331267 5.700000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 15.703800 5.700000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto

1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 15.940867 5.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 16.313400 5.700000 translate 0.035278 -0.035278 scale
start_ol
832 3328 moveto
832 2048 lineto
448 2048 lineto

448 3328 lineto
832 3328 lineto
end_of grestore
gsave 16.482733 5.700000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 10.814300 6.500000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto

2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 11.152967 6.500000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 11.525500 6.500000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto

1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 12.118167 6.500000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 12.710833 6.500000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto

704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 13.083367 6.500000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 13.472833 6.500000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 13.667567 6.500000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto

2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 14.031633 6.500000 translate 0.035278 -0.035278 scale
start_of
2496 2496 moveto
1589 1282 lineto
2560 0 lineto
2067 0 lineto
1327 981 lineto
607 0 lineto
128 0 lineto
1085 1306 lineto
192 2496 lineto
678 2496 lineto
1344 1607 lineto
2010 2496 lineto
2496 2496 lineto
end_of grestore
gsave 14.395700 6.500000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto

448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 14.632767 6.500000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 15.005300 6.500000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto

1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 15.394767 6.500000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 15.716500 6.500000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto

end_of grestore
gsave 15.885833 6.500000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto

end_of grestore
gsave 16.258367 6.500000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto

end_of grestore
gsave 16.647833 6.500000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto

957 2240 798 2144 conicto
 640 2048 640 1856 conicto
 640 1709 757 1625 conicto
 875 1542 1229 1467 conicto
 1380 1435 lineto
 1812 1341 1994 1170 conicto
 2176 999 2176 692 conicto
 2176 343 1899 139 conicto
 1622 -64 1137 -64 conicto
 936 -64 717 -32 conicto
 498 0 256 64 conicto
 256 512 lineto
 490 385 718 320 conicto
 947 256 1170 256 conicto
 1470 256 1631 358 conicto
 1792 461 1792 647 conicto
 1792 820 1670 912 conicto
 1549 1004 1141 1089 conicto
 988 1123 lineto
 600 1203 428 1369 conicto
 256 1535 256 1824 conicto
 256 2177 510 2368 conicto
 765 2560 1233 2560 conicto
 1466 2560 1670 2528 conicto
 1875 2496 2048 2432 conicto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 11.300000 -2.450000 m 11.300000 0.150000 l 17.050000 0.150000 l 17.050000 -2.450000 l f
 n 11.300000 -1.450000 m 11.300000 -1.450000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 17.050000 -1.450000 m 17.050000 -1.450000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 10.300000 -1.450000 m 10.300000 -0.850000 l 18.050000 -0.850000 l 18.050000 -1.450000 l f
 n 11.300000 -0.850000 m 11.300000 -0.850000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 17.050000 -0.850000 m 17.050000 -0.850000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 11.300000 -2.450000 m 17.050000 -2.450000 l s
 n 11.300000 0.150000 m 17.050000 0.150000 l s
 n 11.300000 -1.450000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 17.050000 -1.450000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 10.300000 -1.450000 m 10.300000 -0.850000 l s
 n 18.050000 -1.450000 m 18.050000 -0.850000 l s
 n 11.300000 -0.850000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 17.050000 -0.850000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 11.016933 -1.350000 translate 0.035278 -0.035278 scale
 start_of
 2624 1352 moveto
 2624 1152 lineto

704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 11.381000 -1.350000 translate 0.035278 -0.035278 scale
start_of
2496 2496 moveto
1589 1282 lineto
2560 0 lineto
2067 0 lineto
1327 981 lineto
607 0 lineto
128 0 lineto
1085 1306 lineto
192 2496 lineto
678 2496 lineto
1344 1607 lineto
2010 2496 lineto
2496 2496 lineto
end_of grestore
gsave 11.745067 -1.350000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto

1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 11.982133 -1.350000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 12.236133 -1.350000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto

256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 12.608667 -1.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 12.947333 -1.350000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto

1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 13.184400 -1.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 13.379133 -1.350000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 13.768600 -1.350000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto

1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 14.141133 -1.350000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 14.530600 -1.350000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 14.725333 -1.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto

1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 15.064000 -1.350000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 15.436533 -1.350000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_ol grestore
gsave 16.029200 -1.350000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_ol grestore
gsave 16.621867 -1.350000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto

1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 16.994400 -1.350000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 10.906867 -0.550000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto

256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 11.245533 -0.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 11.618067 -0.550000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore

gsave 11.872067 -0.550000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore

gsave 12.109133 -0.550000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore

gsave 12.278467 -0.550000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto

512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 12.490133 -0.550000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 12.659467 -0.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 12.998133 -0.550000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto

640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 13.370667 -0.550000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto

448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 13.607733 -0.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 13.980267 -0.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.175000 -0.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto

2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 14.539067 -0.550000 translate 0.035278 -0.035278 scale
start_ol
2496 2496 moveto
1589 1282 lineto
2560 0 lineto
2067 0 lineto
1327 981 lineto
607 0 lineto
128 0 lineto
1085 1306 lineto
192 2496 lineto
678 2496 lineto
1344 1607 lineto
2010 2496 lineto
2496 2496 lineto
end_ol grestore
gsave 14.903133 -0.550000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 15.140200 -0.550000 translate 0.035278 -0.035278 scale
start_ol

2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 15.512733 -0.550000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 15.902200 -0.550000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto

1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 16.223933 -0.550000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 16.393267 -0.550000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto

2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 16.765800 -0.550000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 17.155267 -0.550000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto

936 -64 717 -32 conicto
 498 0 256 64 conicto
 256 512 lineto
 490 385 718 320 conicto
 947 256 1170 256 conicto
 1470 256 1631 358 conicto
 1792 461 1792 647 conicto
 1792 820 1670 912 conicto
 1549 1004 1141 1089 conicto
 988 1123 lineto
 600 1203 428 1369 conicto
 256 1535 256 1824 conicto
 256 2177 510 2368 conicto
 765 2560 1233 2560 conicto
 1466 2560 1670 2528 conicto
 1875 2496 2048 2432 conicto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 11.400000 1.300000 m 11.400000 3.900000 l 16.450000 3.900000 l 16.450000 1.300000 l f
 n 11.400000 2.300000 m 11.400000 2.300000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 16.450000 2.300000 m 16.450000 2.300000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 10.400000 2.300000 m 10.400000 2.900000 l 17.450000 2.900000 l 17.450000 2.300000 l f
 n 11.400000 2.900000 m 11.400000 2.900000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 16.450000 2.900000 m 16.450000 2.900000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 11.400000 1.300000 m 16.450000 1.300000 l s
 n 11.400000 3.900000 m 16.450000 3.900000 l s
 n 11.400000 2.300000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 16.450000 2.300000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 10.400000 2.300000 m 10.400000 2.900000 l s
 n 17.450000 2.300000 m 17.450000 2.900000 l s
 n 11.400000 2.900000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 16.450000 2.900000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 11.029400 2.400000 translate 0.035278 -0.035278 scale
 start_of
 1559 1280 moveto
 1040 1280 840 1160 conicto
 640 1041 640 754 conicto
 640 525 790 390 conicto
 940 256 1198 256 conicto
 1554 256 1769 510 conicto
 1984 765 1984 1187 conicto
 1984 1280 lineto
 1559 1280 lineto
 2368 1449 moveto
 2368 0 lineto

1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 11.401933 2.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 11.740600 2.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto

1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 12.079267 2.400000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 12.451800 2.400000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto

640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 12.773533 2.400000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto

1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 13.095267 2.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 13.290000 2.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 13.628667 2.400000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto

256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 14.001200 2.400000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 14.255200 2.400000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto

448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 14.492267 2.400000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 14.661600 2.400000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 14.873267 2.400000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto

448 3008 lineto
448 3520 lineto
end_of grestore
gsave 15.042600 2.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 15.381267 2.400000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto

1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 15.753800 2.400000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 15.990867 2.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto

2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 16.363400 2.400000 translate 0.035278 -0.035278 scale
start_of
832 3328 moveto
832 2048 lineto
448 2048 lineto
448 3328 lineto
832 3328 lineto
end_of grestore
gsave 16.532733 2.400000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto

end_of grestore
gsave 11.698267 3.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 12.036933 3.200000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 12.409467 3.200000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto

3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 13.002133 3.200000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 13.594800 3.200000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 13.967333 3.200000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto

2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 14.356800 3.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 14.551533 3.200000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 14.763200 3.200000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 14.932533 3.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto

1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 15.305067 3.200000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 15.474400 3.200000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto

1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave 15.863867 3.200000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 16.650000 14.600000 m 16.650000 18.000000 l 21.750000 18.000000 l 21.750000 14.600000 l f
n 16.650000 15.600000 m 16.650000 15.600000 1.000000 1.000000 180.000000 270.000000 ellipse f
n 21.750000 15.600000 m 21.750000 15.600000 1.000000 1.000000 270.000000 360.000000 ellipse f
n 15.650000 15.600000 m 15.650000 17.000000 l 22.750000 17.000000 l 22.750000 15.600000 l f
n 16.650000 17.000000 m 16.650000 17.000000 1.000000 1.000000 90.000000 180.000000 ellipse f
n 21.750000 17.000000 m 21.750000 17.000000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 16.650000 14.600000 m 21.750000 14.600000 l s
n 16.650000 18.000000 m 21.750000 18.000000 l s

n 16.650000 15.600000 1.000000 1.000000 180.000000 270.000000 ellipse s
n 21.750000 15.600000 1.000000 1.000000 270.000000 360.000000 ellipse s
n 15.650000 15.600000 m 15.650000 17.000000 l s
n 22.750000 15.600000 m 22.750000 17.000000 l s
n 16.650000 17.000000 1.000000 1.000000 90.000000 180.000000 ellipse s
n 21.750000 17.000000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave 16.232433 15.700000 translate 0.035278 -0.035278 scale
start_ol
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave 16.621900 15.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto

2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 16.994433 15.700000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 17.383900 15.700000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto

1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 17.756433 15.700000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 18.010433 15.700000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto

1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 18.382967 15.700000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 18.620033 15.700000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto

2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 18.992567 15.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.187300 15.700000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 19.551367 15.700000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
896 3328 lineto
896 1922 lineto
2417 3328 lineto
3008 3328 lineto
1325 1776 lineto

3136 0 lineto
2529 0 lineto
896 1603 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 19.915433 15.700000 translate 0.035278 -0.035278 scale
start_of
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto
1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_of grestore
gsave 20.338767 15.700000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto

1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 20.728233 15.700000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 20.922967 15.700000 translate 0.035278 -0.035278 scale
start_of
2310 2048 moveto
1658 2048 lineto
1470 1280 lineto
2126 1280 lineto
2310 2048 lineto
1974 3328 moveto
1741 2368 lineto
2394 2368 lineto
2630 3328 lineto
2988 3328 lineto
2758 2368 lineto
3456 2368 lineto
3456 2048 lineto
2670 2048 lineto
2487 1280 lineto
3198 1280 lineto
3198 960 lineto
2399 960 lineto
2167 0 lineto
1808 0 lineto
2039 960 lineto
1383 960 lineto
1153 0 lineto
792 0 lineto
1024 960 lineto
320 960 lineto
320 1280 lineto
1108 1280 lineto
1296 2048 lineto
575 2048 lineto

575 2368 lineto
1383 2368 lineto
1611 3328 lineto
1974 3328 lineto
end_of grestore
gsave 21.430967 15.700000 translate 0.035278 -0.035278 scale
start_of
576 384 moveto
1344 384 lineto
1344 2944 lineto
512 2752 lineto
512 3136 lineto
1330 3328 lineto
1792 3328 lineto
1792 384 lineto
2560 384 lineto
2560 0 lineto
576 0 lineto
576 384 lineto
end_of grestore
gsave 21.820433 15.700000 translate 0.035278 -0.035278 scale
start_of
1471 3008 moveto
1120 3008 944 2672 conicto
768 2336 768 1663 conicto
768 992 944 656 conicto
1120 320 1471 320 conicto
1824 320 2000 656 conicto
2176 992 2176 1663 conicto
2176 2336 2000 2672 conicto
1824 3008 1471 3008 conicto
1472 3392 moveto
2033 3392 2328 2949 conicto
2624 2506 2624 1663 conicto
2624 822 2328 379 conicto
2033 -64 1472 -64 conicto
911 -64 615 379 conicto
320 822 320 1663 conicto
320 2506 615 2949 conicto
911 3392 1472 3392 conicto
end_of grestore
gsave 17.676000 16.500000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto

704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 18.014667 16.500000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 18.387200 16.500000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto

448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 18.641200 16.500000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 18.878267 16.500000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 19.047600 16.500000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto

1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 19.259267 16.500000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 19.428600 16.500000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto

256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 19.767267 16.500000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 20.139800 16.500000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto

997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 20.376867 16.500000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 17.896133 17.300000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 18.133200 17.300000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 18.505733 17.300000 translate 0.035278 -0.035278 scale
start_of
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
2112 384 moveto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto

256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 384 lineto
end_of grestore
gsave 18.895200 17.300000 translate 0.035278 -0.035278 scale
start_of
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_of grestore
gsave 19.284667 17.300000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto

2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 19.657200 17.300000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 19.978933 17.300000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto

832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 20.216000 17.300000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
0.100000 slw
[] 0 sd

1.000000 1.000000 1.000000 srgb
 n 16.550000 10.450000 m 16.550000 13.850000 l 20.950000 13.850000 l 20.950000 10.450000 l f
 n 16.550000 11.450000 m 16.550000 11.450000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 20.950000 11.450000 m 20.950000 11.450000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 15.550000 11.450000 m 15.550000 12.850000 l 21.950000 12.850000 l 21.950000 11.450000 l f
 n 16.550000 12.850000 m 16.550000 12.850000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 20.950000 12.850000 m 20.950000 12.850000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 16.550000 10.450000 m 20.950000 10.450000 l s
 n 16.550000 13.850000 m 20.950000 13.850000 l s
 n 16.550000 11.450000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 20.950000 11.450000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 15.550000 11.450000 m 15.550000 12.850000 l s
 n 21.950000 11.450000 m 21.950000 12.850000 l s
 n 16.550000 12.850000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 20.950000 12.850000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 16.129567 11.550000 translate 0.035278 -0.035278 scale
 start_ol
 1559 1280 moveto
 1040 1280 840 1160 conicto
 640 1041 640 754 conicto
 640 525 790 390 conicto
 940 256 1198 256 conicto
 1554 256 1769 510 conicto
 1984 765 1984 1187 conicto
 1984 1280 lineto
 1559 1280 lineto
 2368 1449 moveto
 2368 0 lineto
 1984 0 lineto
 1984 384 lineto
 1842 154 1628 45 conicto
 1415 -64 1107 -64 conicto
 717 -64 486 154 conicto
 256 372 256 739 conicto
 256 1166 539 1383 conicto
 822 1600 1384 1600 conicto
 1984 1600 lineto
 1984 1641 lineto
 1984 1927 1796 2083 conicto
 1608 2240 1266 2240 conicto
 1049 2240 843 2192 conicto
 638 2144 448 2048 conicto
 448 2432 lineto
 673 2496 884 2528 conicto
 1095 2560 1295 2560 conicto
 1835 2560 2101 2284 conicto
 2368 2009 2368 1449 conicto

end_of grestore
gsave 16.502100 11.550000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 16.840767 11.550000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 17.179433 11.550000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto

2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 17.551967 11.550000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto

256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 17.873700 11.550000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 18.195433 11.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.390167 11.550000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto

2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 18.754233 11.550000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
896 3328 lineto
896 1922 lineto
2417 3328 lineto
3008 3328 lineto
1325 1776 lineto
3136 0 lineto
2529 0 lineto
896 1603 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 19.118300 11.550000 translate 0.035278 -0.035278 scale
start_of
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto
1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto

2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_ol grestore
gsave 19.541633 11.550000 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore
gsave 19.931100 11.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 20.125833 11.550000 translate 0.035278 -0.035278 scale
start_ol
2310 2048 moveto
1658 2048 lineto
1470 1280 lineto
2126 1280 lineto
2310 2048 lineto
1974 3328 moveto
1741 2368 lineto
2394 2368 lineto

2630 3328 lineto
2988 3328 lineto
2758 2368 lineto
3456 2368 lineto
3456 2048 lineto
2670 2048 lineto
2487 1280 lineto
3198 1280 lineto
3198 960 lineto
2399 960 lineto
2167 0 lineto
1808 0 lineto
2039 960 lineto
1383 960 lineto
1153 0 lineto
792 0 lineto
1024 960 lineto
320 960 lineto
320 1280 lineto
1108 1280 lineto
1296 2048 lineto
575 2048 lineto
575 2368 lineto
1383 2368 lineto
1611 3328 lineto
1974 3328 lineto
end_ol grestore
gsave 20.633833 11.550000 translate 0.035278 -0.035278 scale
start_ol
576 384 moveto
1344 384 lineto
1344 2944 lineto
512 2752 lineto
512 3136 lineto
1330 3328 lineto
1792 3328 lineto
1792 384 lineto
2560 384 lineto
2560 0 lineto
576 0 lineto
576 384 lineto
end_ol grestore
gsave 21.023300 11.550000 translate 0.035278 -0.035278 scale
start_ol
1471 3008 moveto
1120 3008 944 2672 conicto
768 2336 768 1663 conicto
768 992 944 656 conicto

1120 320 1471 320 conicto
1824 320 2000 656 conicto
2176 992 2176 1663 conicto
2176 2336 2000 2672 conicto
1824 3008 1471 3008 conicto
1472 3392 moveto
2033 3392 2328 2949 conicto
2624 2506 2624 1663 conicto
2624 822 2328 379 conicto
2033 -64 1472 -64 conicto
911 -64 615 379 conicto
320 822 320 1663 conicto
320 2506 615 2949 conicto
911 3392 1472 3392 conicto
end_of grestore
gsave 17.226000 12.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 17.564667 12.350000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto

1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 17.937200 12.350000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 18.191200 12.350000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto

128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 18.428267 12.350000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 18.597600 12.350000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore
gsave 18.809267 12.350000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto

448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 18.978600 12.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 19.317267 12.350000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto

822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 19.689800 12.350000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 19.926867 12.350000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto

256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 17.446133 13.150000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 17.683200 13.150000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto

2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 18.055733 13.150000 translate 0.035278 -0.035278 scale
start_of
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
2112 384 moveto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 -960 lineto
2112 -960 lineto
2112 384 lineto
end_of grestore
gsave 18.445200 13.150000 translate 0.035278 -0.035278 scale
start_of
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto

2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_of grestore
gsave 18.834667 13.150000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 19.207200 13.150000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto

490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 19.528933 13.150000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 19.766000 13.150000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto

2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -6.150000 -1.950000 m -6.150000 1.450000 l -1.450000 1.450000 l -1.450000 -1.950000 l f
n -6.150000 -0.950000 m -6.150000 -0.950000 1.000000 1.000000 180.000000 270.000000 ellipse f
n -1.450000 -0.950000 m -1.450000 -0.950000 1.000000 1.000000 270.000000 360.000000 ellipse f
n -7.150000 -0.950000 m -7.150000 0.450000 l -0.450000 0.450000 l -0.450000 -0.950000 l f
n -6.150000 0.450000 m -6.150000 0.450000 1.000000 1.000000 90.000000 180.000000 ellipse f
n -1.450000 0.450000 m -1.450000 0.450000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n -6.150000 -1.950000 m -1.450000 -1.950000 l s
n -6.150000 1.450000 m -1.450000 1.450000 l s
n -6.150000 -0.950000 1.000000 1.000000 180.000000 270.000000 ellipse s
n -1.450000 -0.950000 1.000000 1.000000 270.000000 360.000000 ellipse s
n -7.150000 -0.950000 m -7.150000 0.450000 l s
n -0.450000 -0.950000 m -0.450000 0.450000 l s
n -6.150000 0.450000 1.000000 1.000000 90.000000 180.000000 ellipse s
n -1.450000 0.450000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave -6.568600 -0.850000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto

2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -6.204533 -0.850000 translate 0.035278 -0.035278 scale
start_ol
2496 2496 moveto
1589 1282 lineto
2560 0 lineto
2067 0 lineto
1327 981 lineto
607 0 lineto
128 0 lineto
1085 1306 lineto
192 2496 lineto
678 2496 lineto
1344 1607 lineto
2010 2496 lineto
2496 2496 lineto
end_ol grestore
gsave -5.840467 -0.850000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto

2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave -5.451000 -0.850000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -5.078467 -0.850000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore

gsave -4.824467 -0.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -4.587400 -0.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -4.392667 -0.850000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -4.054000 -0.850000 translate 0.035278 -0.035278 scale

start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -3.681467 -0.850000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -3.427467 -0.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto

832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -3.190400 -0.850000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -3.021067 -0.850000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto

894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -2.809400 -0.850000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -2.640067 -0.850000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -2.301400 -0.850000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto

1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -1.928867 -0.850000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -1.691800 -0.850000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto

2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -1.319267 -0.850000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto

256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -6.221467 -0.050000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -5.984400 -0.050000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto

end_of grestore
gsave -5.611867 -0.050000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -5.417133 -0.050000 translate 0.035278 -0.035278 scale
start_of
896 2944 moveto
896 384 lineto
1454 384 lineto
2160 384 2488 692 conicto
2816 1001 2816 1667 conicto
2816 2329 2488 2636 conicto
2160 2944 1454 2944 conicto
896 2944 lineto
448 3328 moveto
1383 3328 lineto
2355 3328 2809 2925 conicto
3264 2523 3264 1667 conicto
3264 807 2807 403 conicto
2350 0 1383 0 conicto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -4.951467 -0.050000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2560 3328 lineto
2560 2944 lineto
896 2944 lineto
896 1984 lineto
2496 1984 lineto
2496 1600 lineto
896 1600 lineto
896 384 lineto
2624 384 lineto
2624 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -4.562000 -0.050000 translate 0.035278 -0.035278 scale
start_of
2075 1568 moveto
2215 1519 2346 1356 conicto
2478 1194 2612 910 conicto
3072 0 lineto
2587 0 lineto
2184 855 lineto
2012 1189 1850 1298 conicto

1688 1408 1409 1408 conicto
896 1408 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
1488 3328 lineto
2060 3328 2342 3090 conicto
2624 2853 2624 2374 conicto
2624 2061 2484 1854 conicto
2344 1648 2075 1568 conicto
896 2944 moveto
896 1792 lineto
1488 1792 lineto
1829 1792 2002 1939 conicto
2176 2086 2176 2370 conicto
2176 2655 2002 2799 conicto
1829 2944 1488 2944 conicto
896 2944 lineto
end_of grestore
gsave -4.138667 -0.050000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -3.943933 -0.050000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto

638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -3.571400 -0.050000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -3.181933 -0.050000 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto

2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave -2.792467 -0.050000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -2.597733 -0.050000 translate 0.035278 -0.035278 scale
start_of
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -2.233667 -0.050000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2560 3328 lineto
2560 2944 lineto
896 2944 lineto
896 1984 lineto
2496 1984 lineto
2496 1600 lineto
896 1600 lineto
896 384 lineto
2624 384 lineto
2624 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -1.844200 -0.050000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto

1131 3328 lineto
1983 1063 lineto
2839 3328 lineto
3520 3328 lineto
3520 0 lineto
3072 0 lineto
3072 2923 lineto
2211 640 lineto
1757 640 lineto
896 2923 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave -4.959933 0.750000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -4.748267 0.750000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto

1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave -4.375733 0.750000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave -4.130200 0.750000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto

832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave -3.537533 0.750000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -3.165000 0.750000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto

1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -2.927933 0.750000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto

```

end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -6.150000 2.140000 m -6.150000 5.540000 l -1.400000 5.540000 l -1.400000 2.140000 l f
n -6.150000 3.140000 m -6.150000 3.140000 1.000000 1.000000 180.000000 270.000000 ellipse f
n -1.400000 3.140000 m -1.400000 3.140000 1.000000 1.000000 270.000000 360.000000 ellipse f
n -7.150000 3.140000 m -7.150000 4.540000 l -0.400000 4.540000 l -0.400000 3.140000 l f
n -6.150000 4.540000 m -6.150000 4.540000 1.000000 1.000000 90.000000 180.000000 ellipse f
n -1.400000 4.540000 m -1.400000 4.540000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n -6.150000 2.140000 m -1.400000 2.140000 l s
n -6.150000 5.540000 m -1.400000 5.540000 l s
n -6.150000 3.140000 1.000000 1.000000 180.000000 270.000000 ellipse s
n -1.400000 3.140000 1.000000 1.000000 270.000000 360.000000 ellipse s
n -7.150000 3.140000 m -7.150000 4.540000 l s
n -0.400000 3.140000 m -0.400000 4.540000 l s
n -6.150000 4.540000 1.000000 1.000000 90.000000 180.000000 ellipse s
n -1.400000 4.540000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave -6.560533 3.240000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -6.391200 3.240000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto

```

2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave -5.798533 3.240000 translate 0.035278 -0.035278 scale
start_of
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of grestore
gsave -5.409067 3.240000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto

1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -5.036533 3.240000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -4.782533 3.240000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto

128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -4.545467 3.240000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -4.350733 3.240000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -4.012067 3.240000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto

2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -3.639533 3.240000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -3.385533 3.240000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore

gsave -3.148467 3.240000 translate 0.035278 -0.035278 scale

start_ol

448 2496 moveto

832 2496 lineto

832 0 lineto

448 0 lineto

448 2496 lineto

448 3520 moveto

832 3520 lineto

832 3008 lineto

448 3008 lineto

448 3520 lineto

end_ol grestore

gsave -2.979133 3.240000 translate 0.035278 -0.035278 scale

start_ol

1664 3520 moveto

1664 3200 lineto

1305 3200 lineto

1075 3200 985 3100 conicto

896 3001 896 2742 conicto

896 2496 lineto

1600 2496 lineto

1600 2176 lineto

896 2176 lineto

896 0 lineto

512 0 lineto

512 2176 lineto

128 2176 lineto

128 2496 lineto

512 2496 lineto

512 2691 lineto

512 3124 703 3322 conicto

894 3520 1310 3520 conicto

1664 3520 lineto

end_ol grestore

gsave -2.767467 3.240000 translate 0.035278 -0.035278 scale

start_ol

448 2496 moveto

832 2496 lineto

832 0 lineto

448 0 lineto

448 2496 lineto

448 3520 moveto

832 3520 lineto

832 3008 lineto

448 3008 lineto

448 3520 lineto

end_ol grestore

gsave -2.598133 3.240000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto

end_ol grestore
gsave -2.259467 3.240000 translate 0.035278 -0.035278 scale

start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto

638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -1.886933 3.240000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -1.649867 3.240000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto

2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -1.277333 3.240000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave -6.598633 4.040000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto

896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -6.386967 4.040000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -6.149900 4.040000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto

256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -5.777367 4.040000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_ol grestore
gsave -5.184700 4.040000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -4.989967 4.040000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 384 lineto
1454 384 lineto
2160 384 2488 692 conicto
2816 1001 2816 1667 conicto
2816 2329 2488 2636 conicto
2160 2944 1454 2944 conicto
896 2944 lineto
448 3328 moveto

1383 3328 lineto
2355 3328 2809 2925 conicto
3264 2523 3264 1667 conicto
3264 807 2807 403 conicto
2350 0 1383 0 conicto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave -4.524300 4.040000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
2560 3328 lineto
2560 2944 lineto
896 2944 lineto
896 1984 lineto
2496 1984 lineto
2496 1600 lineto
896 1600 lineto
896 384 lineto
2624 384 lineto
2624 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave -4.134833 4.040000 translate 0.035278 -0.035278 scale
start_ol
2075 1568 moveto
2215 1519 2346 1356 conicto
2478 1194 2612 910 conicto
3072 0 lineto
2587 0 lineto
2184 855 lineto
2012 1189 1850 1298 conicto
1688 1408 1409 1408 conicto
896 1408 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
1488 3328 lineto
2060 3328 2342 3090 conicto
2624 2853 2624 2374 conicto
2624 2061 2484 1854 conicto
2344 1648 2075 1568 conicto
896 2944 moveto
896 1792 lineto
1488 1792 lineto
1829 1792 2002 1939 conicto
2176 2086 2176 2370 conicto

2176 2655 2002 2799 conicto
1829 2944 1488 2944 conicto
896 2944 lineto
end_ol grestore
gsave -3.711500 4.040000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.516767 4.040000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -3.144233 4.040000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto

1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave -2.754767 4.040000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave -2.365300 4.040000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -2.170567 4.040000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto

2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -1.806500 4.040000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
2560 3328 lineto
2560 2944 lineto
896 2944 lineto
896 1984 lineto
2496 1984 lineto
2496 1600 lineto
896 1600 lineto
896 384 lineto
2624 384 lineto
2624 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -1.417033 4.040000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
1131 3328 lineto
1983 1063 lineto
2839 3328 lineto
3520 3328 lineto
3520 0 lineto
3072 0 lineto
3072 2923 lineto
2211 640 lineto
1757 640 lineto
896 2923 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -4.934933 4.840000 translate 0.035278 -0.035278 scale

start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -4.723267 4.840000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -4.350733 4.840000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto

832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -4.105200 4.840000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_ol grestore
gsave -3.512533 4.840000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto

640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -3.140000 4.840000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto

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832 3200 lineto
end_of grestore
gsave -2.902933 4.840000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -9.698700 18.300000 m -9.698700 21.700000 l -4.298700 21.700000 l -4.298700 18.300000 l f
n -9.698700 19.300000 m -9.698700 19.300000 l 1.000000 1.000000 180.000000 270.000000 ellipse f
n -4.298700 19.300000 m -4.298700 19.300000 l 1.000000 1.000000 270.000000 360.000000 ellipse f
n -10.698700 19.300000 m -10.698700 20.700000 l -3.298700 20.700000 l -3.298700 19.300000 l f
n -9.698700 20.700000 m -9.698700 20.700000 l 1.000000 1.000000 90.000000 180.000000 ellipse f
n -4.298700 20.700000 m -4.298700 20.700000 l 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n -9.698700 18.300000 m -4.298700 18.300000 l s
n -9.698700 21.700000 m -4.298700 21.700000 l s
n -9.698700 19.300000 1.000000 1.000000 180.000000 270.000000 ellipse s
n -4.298700 19.300000 1.000000 1.000000 270.000000 360.000000 ellipse s

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n -10.698700 19.300000 m -10.698700 20.700000 l s
n -3.298700 19.300000 m -3.298700 20.700000 l s
n -9.698700 20.700000 1.000000 1.000000 90.000000 180.000000 ellipse s
n -4.298700 20.700000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave -9.068800 19.400000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -8.696267 19.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto

2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -8.357600 19.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -8.018933 19.400000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto

934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -7.646400 19.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave -7.324667 19.400000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto

957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave -7.002933 19.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -6.808200 19.400000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto

256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -6.435667 19.400000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave -6.266333 19.400000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave -6.097000 19.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -5.902267 19.400000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto

448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -5.665200 19.400000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -5.275733 19.400000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto

1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -10.110200 20.200000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -9.898533 20.200000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -9.729200 20.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto

2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -9.356667 20.200000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave -9.187333 20.200000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto

704 1713 704 1249 conicto
end_of grestore
gsave -8.797867 20.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -8.476133 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_of grestore
gsave -8.281400 20.200000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto

1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -7.908867 20.200000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -7.697200 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -7.502467 20.200000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto

1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -7.129933 20.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -6.935200 20.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -6.596533 20.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto

2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -6.224000 20.200000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -5.970000 20.200000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto

832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -5.732933 20.200000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -5.563600 20.200000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto

end_of grestore
gsave -5.351933 20.200000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -5.182600 20.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -4.843933 20.200000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto

2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -4.471400 20.200000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -4.234333 20.200000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto

731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -9.149233 21.000000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -8.912167 21.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto

2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -8.539633 21.000000 translate 0.035278 -0.035278 scale
start_of
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_of grestore
gsave -8.175567 21.000000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave -7.803033 21.000000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -7.464367 21.000000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto

448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -7.091833 21.000000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -6.854767 21.000000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -6.685433 21.000000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto

1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -6.312900 21.000000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave -5.923433 21.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -5.728700 21.000000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave -5.559367 21.000000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto

832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -5.390033 21.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave -5.068300 21.000000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto

832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -8.248730 22.500000 m -8.248730 25.900000 1 -4.848730 25.900000 1 -4.848730 22.500000 1 f
n -8.248730 23.500000 m -8.248730 23.500000 1.000000 1.000000 180.000000 270.000000 ellipse f
n -4.848730 23.500000 m -4.848730 23.500000 1.000000 1.000000 270.000000 360.000000 ellipse f
n -9.248730 23.500000 m -9.248730 24.900000 1 -3.848730 24.900000 1 -3.848730 23.500000 1 f
n -8.248730 24.900000 m -8.248730 24.900000 1.000000 1.000000 90.000000 180.000000 ellipse f
n -4.848730 24.900000 m -4.848730 24.900000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n -8.248730 22.500000 m -4.848730 22.500000 1 s
n -8.248730 25.900000 m -4.848730 25.900000 1 s
n -8.248730 23.500000 1.000000 1.000000 180.000000 270.000000 ellipse s
n -4.848730 23.500000 1.000000 1.000000 270.000000 360.000000 ellipse s
n -9.248730 23.500000 m -9.248730 24.900000 1 s
n -3.848730 23.500000 m -3.848730 24.900000 1 s
n -8.248730 24.900000 1.000000 1.000000 90.000000 180.000000 ellipse s
n -4.848730 24.900000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave -8.182797 23.600000 translate 0.035278 -0.035278 scale
start_of
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto

1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave -7.793330 23.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -7.420797 23.600000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto

2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave -7.031330 23.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -6.658797 23.600000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto

832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave -6.404797 23.600000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -6.032263 23.600000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto

832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -5.795197 23.600000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -5.422663 23.600000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -5.227930 23.600000 translate 0.035278 -0.035278 scale

start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -8.072730 24.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto

256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -7.734063 24.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -7.361530 24.400000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto

end_of grestore
gsave -7.107530 24.400000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -6.870463 24.400000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -6.701130 24.400000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto

512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -6.489463 24.400000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -6.320130 24.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -5.981463 24.400000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto

1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -5.608930 24.400000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto

448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -5.371863 24.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -4.999330 24.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -8.699263 25.200000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto

1920 2112 lineto
end_of grestore
gsave -8.462197 25.200000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -8.089663 25.200000 translate 0.035278 -0.035278 scale
start_of
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_of grestore
gsave -7.725597 25.200000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto

1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave -7.353063 25.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -7.014397 25.200000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto

1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -6.641863 25.200000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -6.404797 25.200000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto

832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -6.235463 25.200000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave -5.862930 25.200000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -5.473463 25.200000 translate 0.035278 -0.035278 scale
start_of

end_of grestore
gsave -5.278730 25.200000 translate 0.035278 -0.035278 scale
start_of
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_of grestore
gsave -5.109397 25.200000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -4.940063 25.200000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto

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256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -4.618330 25.200000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 7.551270 -13.100000 m 7.551270 -8.900000 l 14.951270 -8.900000 l 14.951270 -13.100000 l f
n 7.551270 -12.100000 m 7.551270 -12.100000 1.000000 1.000000 180.000000 270.000000 ellipse f
n 14.951270 -12.100000 m 14.951270 -12.100000 1.000000 1.000000 270.000000 360.000000 ellipse f
n 6.551270 -12.100000 m 6.551270 -9.900000 l 15.951270 -9.900000 l 15.951270 -12.100000 l f
n 7.551270 -9.900000 m 7.551270 -9.900000 1.000000 1.000000 90.000000 180.000000 ellipse f
n 14.951270 -9.900000 m 14.951270 -9.900000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 7.551270 -13.100000 m 14.951270 -13.100000 l s
n 7.551270 -8.900000 m 14.951270 -8.900000 l s
n 7.551270 -12.100000 1.000000 1.000000 180.000000 270.000000 ellipse s
n 14.951270 -12.100000 1.000000 1.000000 270.000000 360.000000 ellipse s
n 6.551270 -12.100000 m 6.551270 -9.900000 l s
n 15.951270 -12.100000 m 15.951270 -9.900000 l s
n 7.551270 -9.900000 1.000000 1.000000 90.000000 180.000000 ellipse s
n 14.951270 -9.900000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave 8.766303 -12.000000 translate 0.035278 -0.035278 scale
start_of

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128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_of grestore
gsave 9.130370 -12.000000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 9.502903 -12.000000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto

1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 9.756903 -12.000000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 9.926237 -12.000000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 10.129437 -12.000000 translate 0.035278 -0.035278 scale
start_ol
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto

974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_of grestore
gsave 10.493503 -12.000000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 10.688237 -12.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 11.026903 -12.000000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto

256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 11.399437 -12.000000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 11.653437 -12.000000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto

448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 11.890503 -12.000000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 12.059837 -12.000000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 12.271503 -12.000000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto

448 3008 lineto
448 3520 lineto
end_of grestore
gsave 12.440837 -12.000000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 12.779503 -12.000000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto

1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 13.152037 -12.000000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 13.389103 -12.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto

2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 8.033937 -11.200000 translate 0.035278 -0.035278 scale
start_of
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_of grestore
gsave 8.423403 -11.200000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto

947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 8.745137 -11.200000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 8.914470 -11.200000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 9.303937 -11.200000 translate 0.035278 -0.035278 scale
start_of

2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave 9.693403 -11.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.888137 -11.200000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto

1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 10.260670 -11.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 10.455403 -11.200000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 10.624737 -11.200000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 10.794070 -11.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto

1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 11.115803 -11.200000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto

832 3200 lineto
end_of grestore
gsave 11.352870 -11.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 11.547603 -11.200000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 11.920137 -11.200000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore

gsave 12.131803 -11.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.326537 -11.200000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 12.563603 -11.200000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 12.817603 -11.200000 translate 0.035278 -0.035278 scale
start_ol
448 986 moveto
448 2496 lineto
832 2496 lineto

832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_of grestore
gsave 13.207070 -11.200000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 13.528803 -11.200000 translate 0.035278 -0.035278 scale

start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 13.765870 -11.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 14.138403 -11.200000 translate 0.035278 -0.035278 scale
start_ol

2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 7.195737 -10.400000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 7.534403 -10.400000 translate 0.035278 -0.035278 scale
start_ol

2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 7.906937 -10.400000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 8.160937 -10.400000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto

832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 8.398003 -10.400000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 8.567337 -10.400000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto

1664 3520 lineto
end_of grestore
gsave 8.779003 -10.400000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 8.948337 -10.400000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave 9.287003 -10.400000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto

2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 9.659537 -10.400000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 9.896603 -10.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto

704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 10.269137 -10.400000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto

256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 10.590870 -10.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 10.785603 -10.400000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 11.158137 -10.400000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto

1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 11.547603 -10.400000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 11.937070 -10.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.131803 -10.400000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto

832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 12.368870 -10.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 12.741403 -10.400000 translate 0.035278 -0.035278 scale
start_ol
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_ol grestore

gsave 13.105470 -10.400000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto

end_ol grestore
gsave 13.478003 -10.400000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto

end_ol grestore
gsave 13.816670 -10.400000 translate 0.035278 -0.035278 scale

start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto

640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 14.189203 -10.400000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto

832 3200 lineto
end_of grestore
gsave 14.426270 -10.400000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 14.595603 -10.400000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 14.968137 -10.400000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 10.658603 -9.600000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 10.827937 -9.600000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 10.997270 -9.600000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto

947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 11.319003 -9.600000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 11.556070 -9.600000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto

2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -6.348730 8.450000 m -6.348730 11.050000 l -2.348730 11.050000 l -2.348730 8.450000 l f
n -6.348730 9.450000 m -6.348730 9.450000 1.000000 1.000000 180.000000 270.000000 ellipse f
n -2.348730 9.450000 m -2.348730 9.450000 1.000000 1.000000 270.000000 360.000000 ellipse f
n -7.348730 9.450000 m -7.348730 10.050000 l -1.348730 10.050000 l -1.348730 9.450000 l f
n -6.348730 10.050000 m -6.348730 10.050000 1.000000 1.000000 90.000000 180.000000 ellipse f
n -2.348730 10.050000 m -2.348730 10.050000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n -6.348730 8.450000 m -2.348730 8.450000 l s
n -6.348730 11.050000 m -2.348730 11.050000 l s
n -6.348730 9.450000 1.000000 1.000000 180.000000 270.000000 ellipse s
n -2.348730 9.450000 1.000000 1.000000 270.000000 360.000000 ellipse s
n -7.348730 9.450000 m -7.348730 10.050000 l s
n -1.348730 9.450000 m -1.348730 10.050000 l s
n -6.348730 10.050000 1.000000 1.000000 90.000000 180.000000 ellipse s
n -2.348730 10.050000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave -6.765963 9.550000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto

2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -6.393430 9.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -6.054763 9.550000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto

2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -5.716097 9.550000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -5.343563 9.550000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto

1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -5.021830 9.550000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto

1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -4.700097 9.550000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -4.505363 9.550000 translate 0.035278 -0.035278 scale
start_of
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -4.141297 9.550000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
896 3328 lineto
896 1922 lineto
2417 3328 lineto
3008 3328 lineto
1325 1776 lineto
3136 0 lineto
2529 0 lineto
896 1603 lineto
896 0 lineto
448 0 lineto

448 3328 lineto
end_of grestore
gsave -3.777230 9.550000 translate 0.035278 -0.035278 scale
start_of
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto
1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_of grestore
gsave -3.353897 9.550000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto

1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_ol grestore
gsave -2.964430 9.550000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -2.769697 9.550000 translate 0.035278 -0.035278 scale
start_ol
2310 2048 moveto
1658 2048 lineto
1470 1280 lineto
2126 1280 lineto
2310 2048 lineto
1974 3328 moveto
1741 2368 lineto
2394 2368 lineto
2630 3328 lineto
2988 3328 lineto
2758 2368 lineto
3456 2368 lineto
3456 2048 lineto
2670 2048 lineto
2487 1280 lineto
3198 1280 lineto
3198 960 lineto
2399 960 lineto
2167 0 lineto
1808 0 lineto
2039 960 lineto
1383 960 lineto
1153 0 lineto
792 0 lineto
1024 960 lineto
320 960 lineto
320 1280 lineto
1108 1280 lineto
1296 2048 lineto
575 2048 lineto
575 2368 lineto
1383 2368 lineto
1611 3328 lineto
1974 3328 lineto
end_ol grestore

gsave -2.261697 9.550000 translate 0.035278 -0.035278 scale
start_ol
320 3328 moveto
2496 3328 lineto
2496 3137 lineto
1253 0 lineto
768 0 lineto
1938 2944 lineto
320 2944 lineto
320 3328 lineto
end_ol grestore
gsave -6.575463 10.350000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -6.236797 10.350000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto

934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -5.864263 10.350000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -5.610263 10.350000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto

832 3200 lineto
end_of grestore
gsave -5.373197 10.350000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -5.203863 10.350000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore
gsave -4.992197 10.350000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto

448 3520 lineto
end_of grestore
gsave -4.822863 10.350000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -4.484197 10.350000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto

1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -4.111663 10.350000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -3.874597 10.350000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto

2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -3.502063 10.350000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.307330 10.350000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave -3.137997 10.350000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -2.968663 10.350000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto

498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave -2.646930 10.350000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -2.409863 10.350000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto

1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n -7.598730 12.300000 m -7.598730 14.900000 1 -2.898730 14.900000 1 -2.898730 12.300000 l f
n -7.598730 13.300000 m -7.598730 13.300000 1.000000 1.000000 180.000000 270.000000 ellipse f
n -2.898730 13.300000 m -2.898730 13.300000 1.000000 1.000000 270.000000 360.000000 ellipse f
n -8.598730 13.300000 m -8.598730 13.900000 1 -1.898730 13.900000 1 -1.898730 13.300000 l f
n -7.598730 13.900000 m -7.598730 13.900000 1.000000 1.000000 90.000000 180.000000 ellipse f
n -2.898730 13.900000 m -2.898730 13.900000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n -7.598730 12.300000 m -2.898730 12.300000 l s
n -7.598730 14.900000 m -2.898730 14.900000 l s
n -7.598730 13.300000 1.000000 1.000000 180.000000 270.000000 ellipse s
n -2.898730 13.300000 1.000000 1.000000 270.000000 360.000000 ellipse s
n -8.598730 13.300000 m -8.598730 13.900000 l s
n -1.898730 13.300000 m -1.898730 13.900000 l s
n -7.598730 13.900000 1.000000 1.000000 90.000000 180.000000 ellipse s
n -2.898730 13.900000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave -8.013097 13.400000 translate 0.035278 -0.035278 scale
start_of
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto

1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_of grestore
gsave -7.623630 13.400000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto

750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -7.251097 13.400000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave -6.861630 13.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore

gsave -6.489097 13.400000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -6.235097 13.400000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto

1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -5.862563 13.400000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -5.625497 13.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto

2240 1472 lineto
end_of grestore
gsave -5.252963 13.400000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -5.058230 13.400000 translate 0.035278 -0.035278 scale
start_of
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -4.694163 13.400000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
896 3328 lineto
896 1922 lineto
2417 3328 lineto
3008 3328 lineto
1325 1776 lineto
3136 0 lineto
2529 0 lineto
896 1603 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave -4.330097 13.400000 translate 0.035278 -0.035278 scale
start_of
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto

704 2316 704 1663 conicto
704 1012 1011 666 conicto
1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_of grestore
gsave -3.906763 13.400000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave -3.517297 13.400000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -3.322563 13.400000 translate 0.035278 -0.035278 scale
start_ol
2310 2048 moveto
1658 2048 lineto
1470 1280 lineto
2126 1280 lineto
2310 2048 lineto
1974 3328 moveto
1741 2368 lineto
2394 2368 lineto
2630 3328 lineto
2988 3328 lineto
2758 2368 lineto
3456 2368 lineto
3456 2048 lineto
2670 2048 lineto
2487 1280 lineto
3198 1280 lineto
3198 960 lineto
2399 960 lineto
2167 0 lineto
1808 0 lineto
2039 960 lineto
1383 960 lineto
1153 0 lineto
792 0 lineto
1024 960 lineto
320 960 lineto
320 1280 lineto
1108 1280 lineto
1296 2048 lineto
575 2048 lineto
575 2368 lineto
1383 2368 lineto
1611 3328 lineto
1974 3328 lineto
end_ol grestore
gsave -2.814563 13.400000 translate 0.035278 -0.035278 scale
start_ol
320 3328 moveto
2496 3328 lineto
2496 3137 lineto
1253 0 lineto
768 0 lineto
1938 2944 lineto
320 2944 lineto

320 3328 lineto
end_of grestore
gsave -7.475463 14.200000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -7.136797 14.200000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto

end_of grestore
gsave -6.764263 14.200000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave -6.510263 14.200000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -6.273197 14.200000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto

448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -6.103863 14.200000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -5.892197 14.200000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -5.722863 14.200000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto

704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -5.384197 14.200000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore

gsave -5.011663 14.200000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -4.774597 14.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -4.402063 14.200000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -4.207330 14.200000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave -4.037997 14.200000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -3.868663 14.200000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto

600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -3.546930 14.200000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -3.309863 14.200000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto

947 256 1170 256 conicto
 1470 256 1631 358 conicto
 1792 461 1792 647 conicto
 1792 820 1670 912 conicto
 1549 1004 1141 1089 conicto
 988 1123 lineto
 600 1203 428 1369 conicto
 256 1535 256 1824 conicto
 256 2177 510 2368 conicto
 765 2560 1233 2560 conicto
 1466 2560 1670 2528 conicto
 1875 2496 2048 2432 conicto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n -9.548700 27.150000 m -9.548700 30.550000 1 -2.048700 30.550000 1 -2.048700 27.150000 1 f
 n -9.548700 28.150000 m -9.548700 28.150000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n -2.048700 28.150000 m -2.048700 28.150000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n -10.548700 28.150000 m -10.548700 29.550000 1 -1.048700 29.550000 1 -1.048700 28.150000 1 f
 n -9.548700 29.550000 m -9.548700 29.550000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n -2.048700 29.550000 m -2.048700 29.550000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n -9.548700 27.150000 m -2.048700 27.150000 1 s
 n -9.548700 30.550000 m -2.048700 30.550000 1 s
 n -9.548700 28.150000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n -2.048700 28.150000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n -10.548700 28.150000 m -10.548700 29.550000 1 s
 n -1.048700 28.150000 m -1.048700 29.550000 1 s
 n -9.548700 29.550000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n -2.048700 29.550000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave -8.567300 28.250000 translate 0.035278 -0.035278 scale
 start_of
 128 2496 moveto
 563 2496 lineto
 1344 401 lineto
 2125 2496 lineto
 2560 2496 lineto
 1623 0 lineto
 1065 0 lineto
 128 2496 lineto
 end_of grestore
 gsave -8.203233 28.250000 translate 0.035278 -0.035278 scale
 start_of
 2624 1352 moveto
 2624 1152 lineto
 704 1152 lineto
 731 715 960 485 conicto

1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -7.830700 28.250000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave -7.576700 28.250000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto

448 3520 lineto
end_ol grestore
gsave -7.407367 28.250000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -7.204167 28.250000 translate 0.035278 -0.035278 scale
start_ol
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_ol grestore
gsave -6.840100 28.250000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -6.645367 28.250000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto

1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -6.272833 28.250000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -6.078100 28.250000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto

924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -5.739433 28.250000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -5.366900 28.250000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto

1920 2112 lineto
end_of grestore
gsave -5.112900 28.250000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -4.875833 28.250000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -4.706500 28.250000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto

896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -4.494833 28.250000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -4.325500 28.250000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -3.986833 28.250000 translate 0.035278 -0.035278 scale
start_ol

1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -3.614300 28.250000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto

128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -3.377233 28.250000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -3.004700 28.250000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -8.855167 29.050000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto

1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -8.618100 29.050000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -8.245567 29.050000 translate 0.035278 -0.035278 scale
start_ol
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_ol grestore
gsave -7.881500 29.050000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto

2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -7.508967 29.050000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -7.170300 29.050000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto

1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -6.797767 29.050000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -6.560700 29.050000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto

448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -6.391367 29.050000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave -6.018833 29.050000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -5.629367 29.050000 translate 0.035278 -0.035278 scale

start_ol
end_ol grestore
gsave -5.434633 29.050000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave -5.265300 29.050000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -5.095967 29.050000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto

600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -4.774233 29.050000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -4.537167 29.050000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -4.342433 29.050000 translate 0.035278 -0.035278 scale
start_of
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto

1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_ol grestore
gsave -3.952967 29.050000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave -3.631233 29.050000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto

end_of grestore
gsave -3.461900 29.050000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -3.072433 29.050000 translate 0.035278 -0.035278 scale
start_of
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto

828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave -9.896567 29.850000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -9.524033 29.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -9.329300 29.850000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 0 lineto

448 0 lineto
448 3520 lineto
end_ol grestore
gsave -9.159967 29.850000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -8.990633 29.850000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore

gsave -8.668900 29.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -8.431833 29.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -8.237100 29.850000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave -7.864567 29.850000 translate 0.035278 -0.035278 scale
start_ol

1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -7.652900 29.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -7.458167 29.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -7.221100 29.850000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto

1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -6.967100 29.850000 translate 0.035278 -0.035278 scale
start_ol
448 986 moveto
448 2496 lineto
832 2496 lineto
832 1001 lineto
832 629 978 442 conicto
1124 256 1417 256 conicto
1768 256 1972 477 conicto
2176 699 2176 1081 conicto
2176 2496 lineto
2560 2496 lineto
2560 0 lineto
2176 0 lineto
2176 384 lineto
2022 157 1819 46 conicto
1617 -64 1349 -64 conicto
906 -64 677 203 conicto
448 471 448 986 conicto
end_ol grestore
gsave -6.577633 29.850000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto

2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -6.255900 29.850000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -6.018833 29.850000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto

1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -5.646300 29.850000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave -5.256833 29.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -5.062100 29.850000 translate 0.035278 -0.035278 scale

start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -4.723433 29.850000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -4.350900 29.850000 translate 0.035278 -0.035278 scale
start_ol

1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave -4.096900 29.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -3.859833 29.850000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto

448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -3.690500 29.850000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -3.478833 29.850000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -3.309500 29.850000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto

1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -2.970833 29.850000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave -2.598300 29.850000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto

832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -2.361233 29.850000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -1.988700 29.850000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto

1868 2144 1674 2192 conicto
 1480 2240 1273 2240 conicto
 957 2240 798 2144 conicto
 640 2048 640 1856 conicto
 640 1709 757 1625 conicto
 875 1542 1229 1467 conicto
 1380 1435 lineto
 1812 1341 1994 1170 conicto
 2176 999 2176 692 conicto
 2176 343 1899 139 conicto
 1622 -64 1137 -64 conicto
 936 -64 717 -32 conicto
 498 0 256 64 conicto
 256 512 lineto
 490 385 718 320 conicto
 947 256 1170 256 conicto
 1470 256 1631 358 conicto
 1792 461 1792 647 conicto
 1792 820 1670 912 conicto
 1549 1004 1141 1089 conicto
 988 1123 lineto
 600 1203 428 1369 conicto
 256 1535 256 1824 conicto
 256 2177 510 2368 conicto
 765 2560 1233 2560 conicto
 1466 2560 1670 2528 conicto
 1875 2496 2048 2432 conicto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 0.701269 -9.800000 m 0.701269 -7.200000 l 5.201269 -7.200000 l 5.201269 -9.800000 l f
 n 0.701269 -8.800000 m 0.701269 -8.800000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 5.201269 -8.800000 m 5.201269 -8.800000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n -0.298731 -8.800000 m -0.298731 -8.200000 l 6.201269 -8.200000 l 6.201269 -8.800000 l f
 n 0.701269 -8.200000 m 0.701269 -8.200000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 5.201269 -8.200000 m 5.201269 -8.200000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 0.701269 -9.800000 m 5.201269 -9.800000 l s
 n 0.701269 -7.200000 m 5.201269 -7.200000 l s
 n 0.701269 -8.800000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 5.201269 -8.800000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n -0.298731 -8.800000 m -0.298731 -8.200000 l s
 n 6.201269 -8.800000 m 6.201269 -8.200000 l s
 n 0.701269 -8.200000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 5.201269 -8.200000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 0.305436 -8.700000 translate 0.035278 -0.035278 scale
 start_of

2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_ol grestore
gsave 0.694902 -8.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto

2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 1.067436 -8.700000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 1.304502 -8.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 1.499236 -8.700000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto

1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 1.871769 -8.700000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 2.066502 -8.700000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 2.405169 -8.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto

704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 2.777702 -8.700000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 3.031702 -8.700000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto

997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 3.268769 -8.700000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 3.438102 -8.700000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore

gsave 3.649769 -8.700000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 3.819102 -8.700000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave 4.157769 -8.700000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto

1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 4.530302 -8.700000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 4.767369 -8.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto

1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 5.139902 -8.700000 translate 0.035278 -0.035278 scale
start_of
832 3328 moveto
832 2048 lineto
448 2048 lineto
448 3328 lineto
832 3328 lineto
end_of grestore
gsave 5.309236 -8.700000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto

1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 1.346836 -7.900000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 1.558502 -7.900000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 1.727836 -7.900000 translate 0.035278 -0.035278 scale
start_ol

2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 2.117302 -7.900000 translate 0.035278 -0.035278 scale
start_of
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto
2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto

2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_of grestore
gsave 2.506769 -7.900000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 2.879302 -7.900000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 3.133302 -7.900000 translate 0.035278 -0.035278 scale

start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 3.522769 -7.900000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 3.776769 -7.900000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto

448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 3.946102 -7.900000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 4.335569 -7.900000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto

832 3200 lineto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 17.351300 29.100000 m 17.351300 31.700000 l 20.351300 31.700000 l 20.351300 29.100000 l f
 n 17.351300 30.100000 m 17.351300 30.100000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 20.351300 30.100000 m 20.351300 30.100000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 16.351300 30.100000 m 16.351300 30.700000 l 21.351300 30.700000 l 21.351300 30.100000 l f
 n 17.351300 30.700000 m 17.351300 30.700000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 20.351300 30.700000 m 20.351300 30.700000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 17.351300 29.100000 m 20.351300 29.100000 l s
 n 17.351300 31.700000 m 20.351300 31.700000 l s
 n 17.351300 30.100000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 20.351300 30.100000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 16.351300 30.100000 m 16.351300 30.700000 l s
 n 21.351300 30.100000 m 21.351300 30.700000 l s
 n 17.351300 30.700000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n 20.351300 30.700000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave 17.483933 30.200000 translate 0.035278 -0.035278 scale
 start_of
 2112 1278 moveto
 2112 1736 1926 1988 conicto
 1741 2240 1407 2240 conicto
 1074 2240 889 1988 conicto
 704 1736 704 1278 conicto
 704 824 889 572 conicto
 1074 320 1407 320 conicto
 1741 320 1926 572 conicto
 2112 824 2112 1278 conicto
 2496 289 moveto
 2496 -343 2214 -651 conicto
 1933 -960 1352 -960 conicto
 1137 -960 946 -928 conicto
 755 -896 576 -832 conicto
 576 -448 lineto
 758 -546 936 -593 conicto
 1114 -640 1298 -640 conicto
 1707 -640 1909 -426 conicto
 2112 -212 2112 220 conicto
 2112 448 lineto
 1982 223 1780 111 conicto
 1578 0 1297 0 conicto
 828 0 542 350 conicto
 256 701 256 1279 conicto
 256 1859 542 2209 conicto
 828 2560 1297 2560 conicto

1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_of grestore
gsave 17.873400 30.200000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 18.245933 30.200000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto

2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 18.635400 30.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 19.007933 30.200000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 19.261933 30.200000 translate 0.035278 -0.035278 scale
start_ol

1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 19.634467 30.200000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto

128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 19.871533 30.200000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 16.870100 31.000000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto

256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 17.242633 31.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 17.437367 31.000000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 17.826833 31.000000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto

1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 18.080833 31.000000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 18.250167 31.000000 translate 0.035278 -0.035278 scale
start_of
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_of grestore
gsave 18.614233 31.000000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto

1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 18.986767 31.000000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 19.223833 31.000000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto

2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 19.596367 31.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.791100 31.000000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 20.121300 31.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto

2278 384 2496 512 conicto
 2496 128 lineto
 2273 34 2039 -15 conicto
 1805 -64 1565 -64 conicto
 961 -64 608 284 conicto
 256 632 256 1225 conicto
 256 1839 595 2199 conicto
 934 2560 1509 2560 conicto
 2024 2560 2324 2235 conicto
 2624 1910 2624 1352 conicto
 2240 1472 moveto
 2235 1822 2043 2031 conicto
 1852 2240 1537 2240 conicto
 1180 2240 965 2038 conicto
 750 1836 718 1470 conicto
 2240 1472 lineto
 end_of grestore
 gsave 20.493833 31.000000 translate 0.035278 -0.035278 scale
 start_of
 1477 -262 moveto
 1305 -695 1142 -827 conicto
 980 -960 707 -960 conicto
 384 -960 lineto
 384 -640 lineto
 622 -640 lineto
 789 -640 881 -555 conicto
 974 -471 1085 -156 conicto
 1159 33 lineto
 128 2496 lineto
 590 2496 lineto
 1361 544 lineto
 2131 2496 lineto
 2560 2496 lineto
 1477 -262 lineto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 20.001300 24.300000 m 20.001300 28.500000 l 25.601300 28.500000 l 25.601300 24.300000 l f
 n 20.001300 25.300000 m 20.001300 25.300000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 25.601300 25.300000 m 25.601300 25.300000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 19.001300 25.300000 m 19.001300 27.500000 l 26.601300 27.500000 l 26.601300 25.300000 l f
 n 20.001300 27.500000 m 20.001300 27.500000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 25.601300 27.500000 m 25.601300 27.500000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 20.001300 24.300000 m 25.601300 24.300000 l s
 n 20.001300 28.500000 m 25.601300 28.500000 l s
 n 20.001300 25.300000 1.000000 1.000000 180.000000 270.000000 ellipse s

n 25.601300 25.300000 1.000000 1.000000 270.000000 360.000000 ellipse s
n 19.001300 25.300000 m 19.001300 27.500000 l s
n 26.601300 25.300000 m 26.601300 27.500000 l s
n 20.001300 27.500000 1.000000 1.000000 90.000000 180.000000 ellipse s
n 25.601300 27.500000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave 19.715200 25.400000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 19.884533 25.400000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto

end_of_grestore
gsave 20.477200 25.400000 translate 0.035278 -0.035278 scale
start_of
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of_grestore
gsave 20.866667 25.400000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of_grestore

gsave 21.239200 25.400000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 21.493200 25.400000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 21.730267 25.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 21.925000 25.400000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto

640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 22.297533 25.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 22.492267 25.400000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto

2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of grestore
gsave 22.881733 25.400000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 23.135733 25.400000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 23.305067 25.400000 translate 0.035278 -0.035278 scale
start_of
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto

1065 0 lineto
128 2496 lineto
end_of grestore
gsave 23.669133 25.400000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 24.041667 25.400000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto

1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 24.278733 25.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 24.651267 25.400000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 24.846000 25.400000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto

832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 25.176200 25.400000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 25.548733 25.400000 translate 0.035278 -0.035278 scale
start_ol
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_ol grestore

gsave 19.571267 26.200000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 19.782933 26.200000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 20.020000 26.200000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto

2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_of grestore
gsave 20.392533 26.200000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 20.985200 26.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 21.179933 26.200000 translate 0.035278 -0.035278 scale

start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 21.433933 26.200000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto

2368 2009 2368 1449 conicto
end_of grestore
gsave 21.806467 26.200000 translate 0.035278 -0.035278 scale
start_of
192 2496 moveto
607 2496 lineto
1126 549 lineto
1643 2496 lineto
2133 2496 lineto
2652 549 lineto
3169 2496 lineto
3584 2496 lineto
2923 0 lineto
2433 0 lineto
1890 2046 lineto
1343 0 lineto
853 0 lineto
192 2496 lineto
end_of grestore
gsave 22.306000 26.200000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 22.500733 26.200000 translate 0.035278 -0.035278 scale
start_of
2075 1568 moveto
2215 1519 2346 1356 conicto
2478 1194 2612 910 conicto
3072 0 lineto
2587 0 lineto
2184 855 lineto
2012 1189 1850 1298 conicto
1688 1408 1409 1408 conicto
896 1408 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
1488 3328 lineto
2060 3328 2342 3090 conicto
2624 2853 2624 2374 conicto
2624 2061 2484 1854 conicto
2344 1648 2075 1568 conicto
896 2944 moveto
896 1792 lineto
1488 1792 lineto
1829 1792 2002 1939 conicto
2176 2086 2176 2370 conicto
2176 2655 2002 2799 conicto
1829 2944 1488 2944 conicto

896 2944 lineto
end_of grestore
gsave 22.924067 26.200000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 23.322000 26.200000 translate 0.035278 -0.035278 scale
start_of
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto
847 832 lineto
542 0 lineto
64 0 lineto

1344 3328 lineto
end_ol grestore
gsave 23.736867 26.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 23.931600 26.200000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 24.304133 26.200000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 24.558133 26.200000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 24.752867 26.200000 translate 0.035278 -0.035278 scale

start_ol
896 2944 moveto
896 384 lineto
1454 384 lineto
2160 384 2488 692 conicto
2816 1001 2816 1667 conicto
2816 2329 2488 2636 conicto
2160 2944 1454 2944 conicto
896 2944 lineto
448 3328 moveto
1383 3328 lineto
2355 3328 2809 2925 conicto
3264 2523 3264 1667 conicto
3264 807 2807 403 conicto
2350 0 1383 0 conicto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 25.218533 26.200000 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto

2238 3297 2496 3200 conicto
end_of grestore
gsave 25.616467 26.200000 translate 0.035278 -0.035278 scale
start_ol
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto
847 832 lineto
542 0 lineto
64 0 lineto
1344 3328 lineto
end_of grestore
gsave 26.031333 26.200000 translate 0.035278 -0.035278 scale
start_ol
end_of grestore
gsave 20.388300 27.000000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of grestore
gsave 20.777767 27.000000 translate 0.035278 -0.035278 scale

start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 21.150300 27.000000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto

1920 2112 lineto
end_of grestore
gsave 21.404300 27.000000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 21.776833 27.000000 translate 0.035278 -0.035278 scale
start_of
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto

2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 22.369500 27.000000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 22.742033 27.000000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto

1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 22.979100 27.000000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 23.351633 27.000000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto

832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 23.605633 27.000000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 23.927367 27.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 24.122100 27.000000 translate 0.035278 -0.035278 scale

start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 24.494633 27.000000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto

1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 24.884100 27.000000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 25.273567 27.000000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 20.379833 27.800000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto

2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 20.743900 27.800000 translate 0.035278 -0.035278 scale
start_of
448 3328 moveto
896 3328 lineto
896 1922 lineto
2417 3328 lineto
3008 3328 lineto
1325 1776 lineto
3136 0 lineto
2529 0 lineto
896 1603 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_of grestore
gsave 21.107967 27.800000 translate 0.035278 -0.035278 scale
start_of
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto
1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_of grestore
gsave 21.531300 27.800000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto

1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 21.920767 27.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 22.115500 27.800000 translate 0.035278 -0.035278 scale
start_of
2310 2048 moveto
1658 2048 lineto
1470 1280 lineto
2126 1280 lineto
2310 2048 lineto
1974 3328 moveto
1741 2368 lineto
2394 2368 lineto
2630 3328 lineto
2988 3328 lineto
2758 2368 lineto
3456 2368 lineto
3456 2048 lineto
2670 2048 lineto
2487 1280 lineto
3198 1280 lineto

3198 960 lineto
2399 960 lineto
2167 0 lineto
1808 0 lineto
2039 960 lineto
1383 960 lineto
1153 0 lineto
792 0 lineto
1024 960 lineto
320 960 lineto
320 1280 lineto
1108 1280 lineto
1296 2048 lineto
575 2048 lineto
575 2368 lineto
1383 2368 lineto
1611 3328 lineto
1974 3328 lineto
end_of grestore
gsave 22.623500 27.800000 translate 0.035278 -0.035278 scale
start_of
1471 1600 moveto
1143 1600 955 1429 conicto
768 1259 768 960 conicto
768 661 955 490 conicto
1143 320 1471 320 conicto
1799 320 1987 492 conicto
2176 664 2176 960 conicto
2176 1259 1988 1429 conicto
1801 1600 1471 1600 conicto
1003 1808 moveto
711 1878 547 2072 conicto
384 2266 384 2546 conicto
384 2937 674 3164 conicto
965 3392 1472 3392 conicto
1981 3392 2270 3164 conicto
2560 2937 2560 2546 conicto
2560 2266 2396 2072 conicto
2232 1878 1941 1808 conicto
2263 1730 2443 1505 conicto
2624 1281 2624 956 conicto
2624 463 2326 199 conicto
2028 -64 1472 -64 conicto
916 -64 618 199 conicto
320 463 320 956 conicto
320 1281 501 1505 conicto
682 1730 1003 1808 conicto
832 2496 moveto

832 2255 999 2119 conicto
1167 1984 1471 1984 conicto
1771 1984 1941 2119 conicto
2112 2255 2112 2496 conicto
2112 2738 1941 2873 conicto
1771 3008 1471 3008 conicto
1167 3008 999 2873 conicto
832 2738 832 2496 conicto
end_of grestore
gsave 23.012967 27.800000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 23.207700 27.800000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_of grestore
gsave 23.419367 27.800000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto

2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 23.791900 27.800000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 24.037433 27.800000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto

448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 24.630100 27.800000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 25.002633 27.800000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto

832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
0.100000 slw
[] 0 sd
1.000000 1.000000 1.000000 srgb
n 9.201370 29.150000 m 9.201370 33.350000 l 14.401370 33.350000 l 14.401370 29.150000 l f
n 9.201370 30.150000 m 9.201370 30.150000 1.000000 1.000000 180.000000 270.000000 ellipse f
n 14.401370 30.150000 m 14.401370 30.150000 1.000000 1.000000 270.000000 360.000000 ellipse f
n 8.201370 30.150000 m 8.201370 32.350000 l 15.401370 32.350000 l 15.401370 30.150000 l f
n 9.201370 32.350000 m 9.201370 32.350000 1.000000 1.000000 90.000000 180.000000 ellipse f
n 14.401370 32.350000 m 14.401370 32.350000 1.000000 1.000000 0.000000 90.000000 ellipse f
0.000000 0.000000 0.000000 srgb
n 9.201370 29.150000 m 14.401370 29.150000 l s
n 9.201370 33.350000 m 14.401370 33.350000 l s
n 9.201370 30.150000 1.000000 1.000000 180.000000 270.000000 ellipse s
n 14.401370 30.150000 1.000000 1.000000 270.000000 360.000000 ellipse s
n 8.201370 30.150000 m 8.201370 32.350000 l s
n 15.401370 30.150000 m 15.401370 32.350000 l s
n 9.201370 32.350000 1.000000 1.000000 90.000000 180.000000 ellipse s
n 14.401370 32.350000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave 8.732203 30.250000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto

934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 9.096270 30.250000 translate 0.035278 -0.035278 scale
start_ol
2496 2496 moveto
1589 1282 lineto
2560 0 lineto
2067 0 lineto
1327 981 lineto
607 0 lineto
128 0 lineto
1085 1306 lineto
192 2496 lineto
678 2496 lineto
1344 1607 lineto
2010 2496 lineto
2496 2496 lineto
end_ol grestore
gsave 9.460337 30.250000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto

1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 9.849803 30.250000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 10.222337 30.250000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 10.476337 30.250000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto

1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 10.713403 30.250000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 10.908137 30.250000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto

673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 11.280670 30.250000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 11.475403 30.250000 translate 0.035278 -0.035278 scale
start_of
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of grestore
gsave 11.864870 30.250000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto

1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 12.118870 30.250000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave 12.288203 30.250000 translate 0.035278 -0.035278 scale
start_ol
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_ol grestore
gsave 12.652270 30.250000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto

822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 13.024803 30.250000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 13.261870 30.250000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto

256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 13.634403 30.250000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.829137 30.250000 translate 0.035278 -0.035278 scale
start_ol
448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 14.159337 30.250000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto

2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 14.531870 30.250000 translate 0.035278 -0.035278 scale
start_of
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_of grestore
gsave 8.973503 31.050000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 9.210570 31.050000 translate 0.035278 -0.035278 scale

start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 9.583103 31.050000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 9.777837 31.050000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 10.031837 31.050000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto

1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 10.404370 31.050000 translate 0.035278 -0.035278 scale
start_ol
192 2496 moveto
607 2496 lineto
1126 549 lineto
1643 2496 lineto
2133 2496 lineto
2652 549 lineto
3169 2496 lineto
3584 2496 lineto
2923 0 lineto
2433 0 lineto
1890 2046 lineto
1343 0 lineto
853 0 lineto
192 2496 lineto
end_ol grestore
gsave 10.903903 31.050000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 11.098637 31.050000 translate 0.035278 -0.035278 scale
start_ol

2075 1568 moveto
2215 1519 2346 1356 conicto
2478 1194 2612 910 conicto
3072 0 lineto
2587 0 lineto
2184 855 lineto
2012 1189 1850 1298 conicto
1688 1408 1409 1408 conicto
896 1408 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
1488 3328 lineto
2060 3328 2342 3090 conicto
2624 2853 2624 2374 conicto
2624 2061 2484 1854 conicto
2344 1648 2075 1568 conicto
896 2944 moveto
896 1792 lineto
1488 1792 lineto
1829 1792 2002 1939 conicto
2176 2086 2176 2370 conicto
2176 2655 2002 2799 conicto
1829 2944 1488 2944 conicto
896 2944 lineto
end_of grestore
gsave 11.521970 31.050000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto

2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 11.919903 31.050000 translate 0.035278 -0.035278 scale
start_of
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto
847 832 lineto
542 0 lineto
64 0 lineto
1344 3328 lineto
end_of grestore
gsave 12.334770 31.050000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 12.529503 31.050000 translate 0.035278 -0.035278 scale
start_of
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto

869 2560 1408 2560 conicto
end_ol grestore
gsave 12.902037 31.050000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 13.156037 31.050000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 13.350770 31.050000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 384 lineto
1454 384 lineto
2160 384 2488 692 conicto
2816 1001 2816 1667 conicto
2816 2329 2488 2636 conicto
2160 2944 1454 2944 conicto
896 2944 lineto
448 3328 moveto
1383 3328 lineto
2355 3328 2809 2925 conicto
3264 2523 3264 1667 conicto
3264 807 2807 403 conicto
2350 0 1383 0 conicto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 13.816437 31.050000 translate 0.035278 -0.035278 scale
start_ol
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto

1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of gstore
gsave 14.214370 31.050000 translate 0.035278 -0.035278 scale
start_of
1600 2882 moveto
985 1216 lineto
2218 1216 lineto
1600 2882 lineto
1344 3328 moveto
1858 3328 lineto
3136 0 lineto
2665 0 lineto
2360 832 lineto
847 832 lineto
542 0 lineto
64 0 lineto
1344 3328 lineto
end_of gstore
gsave 9.388370 31.850000 translate 0.035278 -0.035278 scale
start_of
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of grestore
gsave 9.777837 31.850000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto

673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 10.150370 31.850000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 10.404370 31.850000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto

1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 10.776903 31.850000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto
3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_ol grestore
gsave 11.369570 31.850000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto

2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 11.742103 31.850000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 11.979170 31.850000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto

2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave 12.351703 31.850000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave 12.605703 31.850000 translate 0.035278 -0.035278 scale
start_of
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto

936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave 12.927437 31.850000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 13.122170 31.850000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto

673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 13.494703 31.850000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 13.884170 31.850000 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto

1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave 9.379903 32.650000 translate 0.035278 -0.035278 scale
start_ol
896 2944 moveto
896 1728 lineto
1488 1728 lineto
1817 1728 1996 1886 conicto
2176 2044 2176 2337 conicto
2176 2627 1996 2785 conicto
1817 2944 1488 2944 conicto
896 2944 lineto
448 3328 moveto
1488 3328 lineto
2050 3328 2337 3076 conicto
2624 2824 2624 2337 conicto
2624 1847 2337 1595 conicto
2050 1344 1488 1344 conicto
896 1344 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 9.743970 32.650000 translate 0.035278 -0.035278 scale
start_ol
448 3328 moveto
896 3328 lineto
896 1922 lineto
2417 3328 lineto
3008 3328 lineto
1325 1776 lineto
3136 0 lineto
2529 0 lineto
896 1603 lineto
896 0 lineto
448 0 lineto
448 3328 lineto
end_ol grestore
gsave 10.108037 32.650000 translate 0.035278 -0.035278 scale
start_ol
2944 3072 moveto
2944 2624 lineto
2713 2817 2452 2912 conicto
2192 3008 1897 3008 conicto
1319 3008 1011 2662 conicto
704 2316 704 1663 conicto
704 1012 1011 666 conicto

1319 320 1897 320 conicto
2192 320 2452 415 conicto
2713 511 2944 704 conicto
2944 256 lineto
2707 96 2442 16 conicto
2178 -64 1883 -64 conicto
1126 -64 691 399 conicto
256 862 256 1663 conicto
256 2466 691 2929 conicto
1126 3392 1883 3392 conicto
2183 3392 2447 3311 conicto
2712 3231 2944 3072 conicto
end_of grestore
gsave 10.531370 32.650000 translate 0.035278 -0.035278 scale
start_of
2496 3200 moveto
2496 2752 lineto
2234 2882 2001 2945 conicto
1768 3008 1552 3008 conicto
1175 3008 971 2863 conicto
768 2718 768 2452 conicto
768 2228 905 2113 conicto
1042 1999 1426 1929 conicto
1708 1873 lineto
2210 1778 2449 1540 conicto
2688 1303 2688 903 conicto
2688 427 2358 181 conicto
2029 -64 1392 -64 conicto
1152 -64 881 -15 conicto
610 33 320 128 conicto
320 576 lineto
603 448 875 384 conicto
1147 320 1409 320 conicto
1807 320 2023 465 conicto
2240 610 2240 878 conicto
2240 1113 2084 1245 conicto
1928 1378 1572 1444 conicto
1288 1497 lineto
776 1599 548 1817 conicto
320 2035 320 2424 conicto
320 2874 636 3133 conicto
952 3392 1507 3392 conicto
1744 3392 1991 3344 conicto
2238 3297 2496 3200 conicto
end_of grestore
gsave 10.920837 32.650000 translate 0.035278 -0.035278 scale
start_of
end_of grestore

gsave 11.115570 32.650000 translate 0.035278 -0.035278 scale

start_ol

2310 2048 moveto

1658 2048 lineto

1470 1280 lineto

2126 1280 lineto

2310 2048 lineto

1974 3328 moveto

1741 2368 lineto

2394 2368 lineto

2630 3328 lineto

2988 3328 lineto

2758 2368 lineto

3456 2368 lineto

3456 2048 lineto

2670 2048 lineto

2487 1280 lineto

3198 1280 lineto

3198 960 lineto

2399 960 lineto

2167 0 lineto

1808 0 lineto

2039 960 lineto

1383 960 lineto

1153 0 lineto

792 0 lineto

1024 960 lineto

320 960 lineto

320 1280 lineto

1108 1280 lineto

1296 2048 lineto

575 2048 lineto

575 2368 lineto

1383 2368 lineto

1611 3328 lineto

1974 3328 lineto

end_ol grestore

gsave 11.623570 32.650000 translate 0.035278 -0.035278 scale

start_ol

1471 1600 moveto

1143 1600 955 1429 conicto

768 1259 768 960 conicto

768 661 955 490 conicto

1143 320 1471 320 conicto

1799 320 1987 492 conicto

2176 664 2176 960 conicto

2176 1259 1988 1429 conicto

1801 1600 1471 1600 conicto

1003 1808 moveto
711 1878 547 2072 conicto
384 2266 384 2546 conicto
384 2937 674 3164 conicto
965 3392 1472 3392 conicto
1981 3392 2270 3164 conicto
2560 2937 2560 2546 conicto
2560 2266 2396 2072 conicto
2232 1878 1941 1808 conicto
2263 1730 2443 1505 conicto
2624 1281 2624 956 conicto
2624 463 2326 199 conicto
2028 -64 1472 -64 conicto
916 -64 618 199 conicto
320 463 320 956 conicto
320 1281 501 1505 conicto
682 1730 1003 1808 conicto
832 2496 moveto
832 2255 999 2119 conicto
1167 1984 1471 1984 conicto
1771 1984 1941 2119 conicto
2112 2255 2112 2496 conicto
2112 2738 1941 2873 conicto
1771 3008 1471 3008 conicto
1167 3008 999 2873 conicto
832 2738 832 2496 conicto
end_ol grestore
gsave 12.013037 32.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 12.207770 32.650000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto

512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave 12.419437 32.650000 translate 0.035278 -0.035278 scale
start_ol
1409 2240 moveto
1083 2240 893 1974 conicto
704 1709 704 1248 conicto
704 787 892 521 conicto
1081 256 1409 256 conicto
1733 256 1922 522 conicto
2112 789 2112 1248 conicto
2112 1705 1922 1972 conicto
1733 2240 1409 2240 conicto
1408 2560 moveto
1946 2560 2253 2212 conicto
2560 1864 2560 1248 conicto
2560 634 2253 285 conicto
1946 -64 1408 -64 conicto
869 -64 562 285 conicto
256 634 256 1248 conicto
256 1864 562 2212 conicto
869 2560 1408 2560 conicto
end_ol grestore
gsave 12.791970 32.650000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 13.037503 32.650000 translate 0.035278 -0.035278 scale
start_ol
2431 2020 moveto
2590 2296 2809 2428 conicto
3029 2560 3325 2560 conicto

3726 2560 3943 2287 conicto
4160 2014 4160 1509 conicto
4160 0 lineto
3776 0 lineto
3776 1496 lineto
3776 1874 3641 2057 conicto
3506 2240 3228 2240 conicto
2890 2240 2693 2018 conicto
2496 1796 2496 1413 conicto
2496 0 lineto
2112 0 lineto
2112 1496 lineto
2112 1876 1976 2058 conicto
1841 2240 1560 2240 conicto
1225 2240 1028 2017 conicto
832 1794 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
977 2341 1180 2450 conicto
1383 2560 1662 2560 conicto
1942 2560 2139 2422 conicto
2337 2284 2431 2020 conicto
end_of grestore
gsave 13.630170 32.650000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto

1984 1641 lineto
 1984 1927 1796 2083 conicto
 1608 2240 1266 2240 conicto
 1049 2240 843 2192 conicto
 638 2144 448 2048 conicto
 448 2432 lineto
 673 2496 884 2528 conicto
 1095 2560 1295 2560 conicto
 1835 2560 2101 2284 conicto
 2368 2009 2368 1449 conicto
 end_of grestore
 gsave 14.002703 32.650000 translate 0.035278 -0.035278 scale
 start_of
 832 3200 moveto
 832 2496 lineto
 1664 2496 lineto
 1664 2176 lineto
 832 2176 lineto
 832 804 lineto
 832 495 914 407 conicto
 997 320 1248 320 conicto
 1664 320 lineto
 1664 0 lineto
 1248 0 lineto
 793 0 620 173 conicto
 448 347 448 804 conicto
 448 2176 lineto
 128 2176 lineto
 128 2496 lineto
 448 2496 lineto
 448 3200 lineto
 832 3200 lineto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n 17.801400 20.000000 m 17.801400 23.400000 l 21.001400 23.400000 l 21.001400 20.000000 l f
 n 17.801400 21.000000 m 17.801400 21.000000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n 21.001400 21.000000 m 21.001400 21.000000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n 16.801400 21.000000 m 16.801400 22.400000 l 22.001400 22.400000 l 22.001400 21.000000 l f
 n 17.801400 22.400000 m 17.801400 22.400000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n 21.001400 22.400000 m 21.001400 22.400000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n 17.801400 20.000000 m 21.001400 20.000000 l s
 n 17.801400 23.400000 m 21.001400 23.400000 l s
 n 17.801400 21.000000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n 21.001400 21.000000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n 16.801400 21.000000 m 16.801400 22.400000 l s

n 22.001400 21.000000 m 22.001400 22.400000 l s
n 17.801400 22.400000 1.000000 1.000000 90.000000 180.000000 ellipse s
n 21.001400 22.400000 1.000000 1.000000 0.000000 90.000000 ellipse s
gsave 18.012867 21.100000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto
640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_ol grestore
gsave 18.334600 21.100000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore

gsave 18.503933 21.100000 translate 0.035278 -0.035278 scale

start_ol

2112 1278 moveto

2112 1736 1926 1988 conicto

1741 2240 1407 2240 conicto

1074 2240 889 1988 conicto

704 1736 704 1278 conicto

704 824 889 572 conicto

1074 320 1407 320 conicto

1741 320 1926 572 conicto

2112 824 2112 1278 conicto

2496 289 moveto

2496 -343 2214 -651 conicto

1933 -960 1352 -960 conicto

1137 -960 946 -928 conicto

755 -896 576 -832 conicto

576 -448 lineto

758 -546 936 -593 conicto

1114 -640 1298 -640 conicto

1707 -640 1909 -426 conicto

2112 -212 2112 220 conicto

2112 448 lineto

1982 223 1780 111 conicto

1578 0 1297 0 conicto

828 0 542 350 conicto

256 701 256 1279 conicto

256 1859 542 2209 conicto

828 2560 1297 2560 conicto

1578 2560 1780 2448 conicto

1982 2337 2112 2112 conicto

2112 2496 lineto

2496 2496 lineto

2496 289 lineto

end_ol grestore

gsave 18.893400 21.100000 translate 0.035278 -0.035278 scale

start_ol

2560 1509 moveto

2560 0 lineto

2176 0 lineto

2176 1496 lineto

2176 1869 2029 2054 conicto

1883 2240 1590 2240 conicto

1238 2240 1035 2018 conicto

832 1796 832 1413 conicto

832 0 lineto

448 0 lineto

448 2496 lineto

832 2496 lineto

832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave 19.282867 21.100000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave 19.477600 21.100000 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave 19.867067 21.100000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto

1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 20.239600 21.100000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 20.476667 21.100000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto

940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 17.305900 21.900000 translate 0.035278 -0.035278 scale
start_ol
192 2496 moveto
607 2496 lineto
1126 549 lineto
1643 2496 lineto
2133 2496 lineto
2652 549 lineto
3169 2496 lineto
3584 2496 lineto
2923 0 lineto
2433 0 lineto
1890 2046 lineto
1343 0 lineto
853 0 lineto
192 2496 lineto
end_ol grestore
gsave 17.805433 21.900000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto

832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave 17.974767 21.900000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave 18.211833 21.900000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto

2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave 18.601300 21.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 18.796033 21.900000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave 19.168567 21.900000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave 19.363300 21.900000 translate 0.035278 -0.035278 scale
start_ol
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto

832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_ol grestore
gsave 19.752767 21.900000 translate 0.035278 -0.035278 scale
start_ol
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_ol grestore
gsave 20.006767 21.900000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto

448 3008 lineto
448 3520 lineto
end_of grestore
gsave 20.176100 21.900000 translate 0.035278 -0.035278 scale
start_of
128 2496 moveto
563 2496 lineto
1344 401 lineto
2125 2496 lineto
2560 2496 lineto
1623 0 lineto
1065 0 lineto
128 2496 lineto
end_of grestore
gsave 20.540167 21.900000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_of grestore
gsave 20.912700 21.900000 translate 0.035278 -0.035278 scale

start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave 21.149767 21.900000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 18.880700 22.700000 translate 0.035278 -0.035278 scale
start_ol

448 3520 moveto
832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave 19.210900 22.700000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave 19.583433 22.700000 translate 0.035278 -0.035278 scale
start_ol
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto

1159 33 lineto
 128 2496 lineto
 590 2496 lineto
 1361 544 lineto
 2131 2496 lineto
 2560 2496 lineto
 1477 -262 lineto
 end_of grestore
 0.100000 slw
 [] 0 sd
 1.000000 1.000000 1.000000 srgb
 n -6.648630 -6.550000 m -6.648630 -3.150000 l -1.298630 -3.150000 l -1.298630 -6.550000 l f
 n -6.648630 -5.550000 m -6.648630 -5.550000 1.000000 1.000000 180.000000 270.000000 ellipse f
 n -1.298630 -5.550000 m -1.298630 -5.550000 1.000000 1.000000 270.000000 360.000000 ellipse f
 n -7.648630 -5.550000 m -7.648630 -4.150000 l -0.298630 -4.150000 l -0.298630 -5.550000 l f
 n -6.648630 -4.150000 m -6.648630 -4.150000 1.000000 1.000000 90.000000 180.000000 ellipse f
 n -1.298630 -4.150000 m -1.298630 -4.150000 1.000000 1.000000 0.000000 90.000000 ellipse f
 0.000000 0.000000 0.000000 srgb
 n -6.648630 -6.550000 m -1.298630 -6.550000 l s
 n -6.648630 -3.150000 m -1.298630 -3.150000 l s
 n -6.648630 -5.550000 1.000000 1.000000 180.000000 270.000000 ellipse s
 n -1.298630 -5.550000 1.000000 1.000000 270.000000 360.000000 ellipse s
 n -7.648630 -5.550000 m -7.648630 -4.150000 l s
 n -0.298630 -5.550000 m -0.298630 -4.150000 l s
 n -6.648630 -4.150000 1.000000 1.000000 90.000000 180.000000 ellipse s
 n -1.298630 -4.150000 1.000000 1.000000 0.000000 90.000000 ellipse s
 gsave -6.704130 -5.450000 translate 0.035278 -0.035278 scale
 start_of
 128 2496 moveto
 563 2496 lineto
 1344 401 lineto
 2125 2496 lineto
 2560 2496 lineto
 1623 0 lineto
 1065 0 lineto
 128 2496 lineto
 end_of grestore
 gsave -6.340063 -5.450000 translate 0.035278 -0.035278 scale
 start_of
 2624 1352 moveto
 2624 1152 lineto
 704 1152 lineto
 731 715 960 485 conicto
 1189 256 1597 256 conicto
 1834 256 2056 320 conicto
 2278 384 2496 512 conicto
 2496 128 lineto
 2273 34 2039 -15 conicto

1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -5.967530 -5.450000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave -5.713530 -5.450000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -5.544197 -5.450000 translate 0.035278 -0.035278 scale
start_of
1664 3520 moveto

1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -5.340997 -5.450000 translate 0.035278 -0.035278 scale
start_ol
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_ol grestore
gsave -4.976930 -5.450000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -4.782197 -5.450000 translate 0.035278 -0.035278 scale
start_ol
2048 2432 moveto
2048 2048 lineto
1868 2144 1674 2192 conicto
1480 2240 1273 2240 conicto
957 2240 798 2144 conicto
640 2048 640 1856 conicto

640 1709 757 1625 conicto
875 1542 1229 1467 conicto
1380 1435 lineto
1812 1341 1994 1170 conicto
2176 999 2176 692 conicto
2176 343 1899 139 conicto
1622 -64 1137 -64 conicto
936 -64 717 -32 conicto
498 0 256 64 conicto
256 512 lineto
490 385 718 320 conicto
947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto
1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
256 1535 256 1824 conicto
256 2177 510 2368 conicto
765 2560 1233 2560 conicto
1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -4.460463 -5.450000 translate 0.035278 -0.035278 scale
start_of
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -4.291130 -5.450000 translate 0.035278 -0.035278 scale
start_of
2112 1278 moveto
2112 1736 1926 1988 conicto
1741 2240 1407 2240 conicto
1074 2240 889 1988 conicto
704 1736 704 1278 conicto
704 824 889 572 conicto
1074 320 1407 320 conicto
1741 320 1926 572 conicto
2112 824 2112 1278 conicto

2496 289 moveto
2496 -343 2214 -651 conicto
1933 -960 1352 -960 conicto
1137 -960 946 -928 conicto
755 -896 576 -832 conicto
576 -448 lineto
758 -546 936 -593 conicto
1114 -640 1298 -640 conicto
1707 -640 1909 -426 conicto
2112 -212 2112 220 conicto
2112 448 lineto
1982 223 1780 111 conicto
1578 0 1297 0 conicto
828 0 542 350 conicto
256 701 256 1279 conicto
256 1859 542 2209 conicto
828 2560 1297 2560 conicto
1578 2560 1780 2448 conicto
1982 2337 2112 2112 conicto
2112 2496 lineto
2496 2496 lineto
2496 289 lineto
end_of grestore
gsave -3.901663 -5.450000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -3.512197 -5.450000 translate 0.035278 -0.035278 scale
start_of
2624 1352 moveto
2624 1152 lineto
704 1152 lineto

731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -3.139663 -5.450000 translate 0.035278 -0.035278 scale
start_ol
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_ol grestore
gsave -2.750197 -5.450000 translate 0.035278 -0.035278 scale
start_ol

end_of grestore
gsave -2.555463 -5.450000 translate 0.035278 -0.035278 scale
start_of
2112 2112 moveto
2112 3520 lineto
2496 3520 lineto
2496 0 lineto
2112 0 lineto
2112 384 lineto
1980 156 1779 46 conicto
1578 -64 1297 -64 conicto
835 -64 545 297 conicto
256 659 256 1248 conicto
256 1837 545 2198 conicto
835 2560 1297 2560 conicto
1578 2560 1779 2450 conicto
1980 2340 2112 2112 conicto
704 1249 moveto
704 784 891 520 conicto
1079 256 1407 256 conicto
1735 256 1923 520 conicto
2112 784 2112 1249 conicto
2112 1713 1923 1976 conicto
1735 2240 1407 2240 conicto
1079 2240 891 1976 conicto
704 1713 704 1249 conicto
end_of grestore
gsave -2.165997 -5.450000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto

1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -1.793463 -5.450000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -1.556397 -5.450000 translate 0.035278 -0.035278 scale
start_ol
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
940 256 1198 256 conicto
1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto

1984 384 lineto
1842 154 1628 45 conicto
1415 -64 1107 -64 conicto
717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -7.080897 -4.650000 translate 0.035278 -0.035278 scale
start_ol
192 2496 moveto
607 2496 lineto
1126 549 lineto
1643 2496 lineto
2133 2496 lineto
2652 549 lineto
3169 2496 lineto
3584 2496 lineto
2923 0 lineto
2433 0 lineto
1890 2046 lineto
1343 0 lineto
853 0 lineto
192 2496 lineto
end_ol grestore
gsave -6.581363 -4.650000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto

end_of grestore
gsave -6.412030 -4.650000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_of grestore
gsave -6.174963 -4.650000 translate 0.035278 -0.035278 scale
start_of
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_of grestore
gsave -5.785497 -4.650000 translate 0.035278 -0.035278 scale
start_of
end_of grestore
gsave -5.590763 -4.650000 translate 0.035278 -0.035278 scale
start_of

832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -5.353697 -4.650000 translate 0.035278 -0.035278 scale
start_ol
2560 1509 moveto
2560 0 lineto
2176 0 lineto
2176 1496 lineto
2176 1869 2029 2054 conicto
1883 2240 1590 2240 conicto
1238 2240 1035 2018 conicto
832 1796 832 1413 conicto
832 0 lineto
448 0 lineto
448 3520 lineto
832 3520 lineto
832 2112 lineto
983 2337 1188 2448 conicto
1394 2560 1662 2560 conicto
2106 2560 2333 2293 conicto
2560 2027 2560 1509 conicto
end_ol grestore
gsave -4.964230 -4.650000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto

2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_ol grestore
gsave -4.591697 -4.650000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -4.396963 -4.650000 translate 0.035278 -0.035278 scale
start_ol
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -4.058297 -4.650000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto

1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -3.685763 -4.650000 translate 0.035278 -0.035278 scale
start_of
1920 2112 moveto
1848 2178 1764 2209 conicto
1680 2240 1578 2240 conicto
1218 2240 1025 2001 conicto
832 1763 832 1317 conicto
832 0 lineto
448 0 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
965 2339 1180 2449 conicto
1396 2560 1702 2560 conicto
1747 2560 1799 2560 conicto
1852 2560 1917 2560 conicto
1920 2112 lineto
end_of grestore
gsave -3.431763 -4.650000 translate 0.035278 -0.035278 scale
start_of
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto

1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -3.194697 -4.650000 translate 0.035278 -0.035278 scale
start_ol
448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_ol grestore
gsave -3.025363 -4.650000 translate 0.035278 -0.035278 scale
start_ol
1664 3520 moveto
1664 3200 lineto
1305 3200 lineto
1075 3200 985 3100 conicto
896 3001 896 2742 conicto
896 2496 lineto
1600 2496 lineto
1600 2176 lineto
896 2176 lineto
896 0 lineto
512 0 lineto
512 2176 lineto
128 2176 lineto
128 2496 lineto
512 2496 lineto
512 2691 lineto
512 3124 703 3322 conicto
894 3520 1310 3520 conicto
1664 3520 lineto
end_ol grestore
gsave -2.813697 -4.650000 translate 0.035278 -0.035278 scale
start_ol

448 2496 moveto
832 2496 lineto
832 0 lineto
448 0 lineto
448 2496 lineto
448 3520 moveto
832 3520 lineto
832 3008 lineto
448 3008 lineto
448 3520 lineto
end_of grestore
gsave -2.644363 -4.650000 translate 0.035278 -0.035278 scale
start_of
2240 2432 moveto
2240 2048 lineto
2066 2144 1892 2192 conicto
1718 2240 1541 2240 conicto
1143 2240 923 1979 conicto
704 1718 704 1248 conicto
704 778 923 517 conicto
1143 256 1541 256 conicto
1718 256 1892 304 conicto
2066 352 2240 448 conicto
2240 64 lineto
2068 0 1883 -32 conicto
1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
931 2560 1517 2560 conicto
1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_of grestore
gsave -2.305697 -4.650000 translate 0.035278 -0.035278 scale
start_of
1559 1280 moveto
1040 1280 840 1160 conicto
640 1041 640 754 conicto
640 525 790 390 conicto
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1554 256 1769 510 conicto
1984 765 1984 1187 conicto
1984 1280 lineto
1559 1280 lineto
2368 1449 moveto
2368 0 lineto
1984 0 lineto
1984 384 lineto

1842 154 1628 45 conicto
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717 -64 486 154 conicto
256 372 256 739 conicto
256 1166 539 1383 conicto
822 1600 1384 1600 conicto
1984 1600 lineto
1984 1641 lineto
1984 1927 1796 2083 conicto
1608 2240 1266 2240 conicto
1049 2240 843 2192 conicto
638 2144 448 2048 conicto
448 2432 lineto
673 2496 884 2528 conicto
1095 2560 1295 2560 conicto
1835 2560 2101 2284 conicto
2368 2009 2368 1449 conicto
end_ol grestore
gsave -1.933163 -4.650000 translate 0.035278 -0.035278 scale
start_ol
832 3200 moveto
832 2496 lineto
1664 2496 lineto
1664 2176 lineto
832 2176 lineto
832 804 lineto
832 495 914 407 conicto
997 320 1248 320 conicto
1664 320 lineto
1664 0 lineto
1248 0 lineto
793 0 620 173 conicto
448 347 448 804 conicto
448 2176 lineto
128 2176 lineto
128 2496 lineto
448 2496 lineto
448 3200 lineto
832 3200 lineto
end_ol grestore
gsave -1.696097 -4.650000 translate 0.035278 -0.035278 scale
start_ol
2624 1352 moveto
2624 1152 lineto
704 1152 lineto
731 715 960 485 conicto
1189 256 1597 256 conicto
1834 256 2056 320 conicto

2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -1.323563 -4.650000 translate 0.035278 -0.035278 scale
start_of
832 3328 moveto
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448 3328 lineto
832 3328 lineto
end_of grestore
gsave -1.154230 -4.650000 translate 0.035278 -0.035278 scale
start_of
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256 512 lineto
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947 256 1170 256 conicto
1470 256 1631 358 conicto
1792 461 1792 647 conicto
1792 820 1670 912 conicto

1549 1004 1141 1089 conicto
988 1123 lineto
600 1203 428 1369 conicto
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256 2177 510 2368 conicto
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1466 2560 1670 2528 conicto
1875 2496 2048 2432 conicto
end_of grestore
gsave -5.514563 -3.850000 translate 0.035278 -0.035278 scale
start_of
832 384 moveto
832 -960 lineto
448 -960 lineto
448 2496 lineto
832 2496 lineto
832 2112 lineto
963 2340 1164 2450 conicto
1366 2560 1645 2560 conicto
2108 2560 2398 2198 conicto
2688 1837 2688 1248 conicto
2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
2240 1249 moveto
2240 1713 2052 1976 conicto
1865 2240 1536 2240 conicto
1208 2240 1020 1976 conicto
832 1713 832 1249 conicto
832 784 1020 520 conicto
1208 256 1536 256 conicto
1865 256 2052 520 conicto
2240 784 2240 1249 conicto
end_of grestore
gsave -5.125097 -3.850000 translate 0.035278 -0.035278 scale
start_of
448 986 moveto
448 2496 lineto
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2560 2496 lineto
2560 0 lineto

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832 2112 moveto
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2688 659 2398 297 conicto
2108 -64 1645 -64 conicto
1366 -64 1164 46 conicto
963 156 832 384 conicto
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448 0 lineto
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832 3520 lineto
832 2112 lineto
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448 2496 lineto

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1143 2240 923 1979 conicto
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1143 256 1541 256 conicto
1718 256 1892 304 conicto
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2240 64 lineto
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1698 -64 1490 -64 conicto
924 -64 590 290 conicto
256 645 256 1248 conicto
256 1859 593 2209 conicto
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1707 2560 1888 2528 conicto
2070 2496 2240 2432 conicto
end_ol grestore
gsave -3.668830 -3.850000 translate 0.035278 -0.035278 scale
start_ol
end_ol grestore
gsave -3.474097 -3.850000 translate 0.035278 -0.035278 scale
start_ol
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832 3520 lineto
832 1419 lineto
2087 2496 lineto
2624 2496 lineto
1266 1328 lineto
2688 0 lineto
2137 0 lineto
832 1219 lineto
832 0 lineto
448 0 lineto
448 3520 lineto
end_ol grestore
gsave -3.143897 -3.850000 translate 0.035278 -0.035278 scale
start_ol

2624 1352 moveto
2624 1152 lineto
704 1152 lineto
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1189 256 1597 256 conicto
1834 256 2056 320 conicto
2278 384 2496 512 conicto
2496 128 lineto
2273 34 2039 -15 conicto
1805 -64 1565 -64 conicto
961 -64 608 284 conicto
256 632 256 1225 conicto
256 1839 595 2199 conicto
934 2560 1509 2560 conicto
2024 2560 2324 2235 conicto
2624 1910 2624 1352 conicto
2240 1472 moveto
2235 1822 2043 2031 conicto
1852 2240 1537 2240 conicto
1180 2240 965 2038 conicto
750 1836 718 1470 conicto
2240 1472 lineto
end_of grestore
gsave -2.771363 -3.850000 translate 0.035278 -0.035278 scale
start_of
1477 -262 moveto
1305 -695 1142 -827 conicto
980 -960 707 -960 conicto
384 -960 lineto
384 -640 lineto
622 -640 lineto
789 -640 881 -555 conicto
974 -471 1085 -156 conicto
1159 33 lineto
128 2496 lineto
590 2496 lineto
1361 544 lineto
2131 2496 lineto
2560 2496 lineto
1477 -262 lineto
end_of grestore
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n -0.450000 -0.250000 m 5.900000 8.100000 1 s
0.100000 slw
[] 0 sd

[] 0 sd
0 slc
n -0.400000 3.840000 m 5.900000 8.100000 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 5.900000 8.100000 m 10.400000 2.600000 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 5.900000 8.100000 m 10.250000 5.900000 1 s
0.100000 slw
[] 0 sd
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0 slc
n 5.900000 8.100000 m 10.300000 0.150000 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 5.900000 8.100000 m 10.450000 -3.600000 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n -0.298631 -4.850000 m 5.900000 8.100000 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 2.951270 -7.200000 m 5.900000 8.100000 1 s
0.100000 slw
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[] 0 sd
0 slc
n 7.150000 10.800000 m 15.550000 12.150000 1 s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 7.150000 10.800000 m 15.650000 16.300000 1 s
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[] 0 sd
0 slc
n 11.251300 -8.900000 m 5.900000 8.100000 1 s

0.100000 slw
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0 slc
n 5.900000 13.500000 m 11.801400 29.150000 l s
0.100000 slw
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0 slc
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[] 0 sd
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0 slc
n 5.900000 13.500000 m 16.801400 21.700000 l s
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0 slc
n 5.900000 13.500000 m 19.001300 26.400000 l s
0.100000 slw
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0 slc
n -1.348730 9.750000 m 4.650000 10.800000 l s
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n -1.898730 13.600000 m 4.650000 10.800000 l s
0.100000 slw
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0 slc
n -3.298730 20.000000 m 4.650000 13.500000 l s
0.100000 slw
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0 slc
n 4.650000 13.500000 m -3.848730 24.200000 l s
0.100000 slw
[] 0 sd
[] 0 sd
0 slc
n 4.650000 13.500000 m -1.048730 27.150000 l s
showpage

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5011 y FB(Sev)m(eral)39 b(new)e(systems)h(pro)m(vid)e(g(hardw)m(are)f
(assisted)h(cryptographic)h(algorithm)f(implemen)m(tations)150
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(magnitude)h(faster)f(than)g(the)h(soft)m(w)m(are.)71
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(erride)g(parts)e(of)h(the)g(crypto)g(bac)m(k)m(end)150
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(register)f(those)g(algo-)150 974 y(rithms.)225 1108
y Fy(\017)60 b FB([gn)m(utls)p 601 1108 28 4 v 41 w(crypto)p
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40 w(single)p 1159 1243 V 41 w(mac)p 1361 1243 V 40 w(register2,],33
b(page)e(137)g(T)-8 b(o)31 b(register)g(a)g(MA)m(C)g(algorithm.)330
1377 y([gn)m(utls)p 601 1377 V 41 w(crypto)p 897 1377
V 40 w(single)p 1159 1377 V 41 w(digest)p 1432 1377 V
41 w(register2,],)g(page)g(137)g(T)-8 b(o)30 b(register)g(a)h(digest)f
(\hash))g(algorithm.)150 1537 y(Those)i(registration)i(functions)e
(will)h(only)g(replace)g(the)g(sp)s(eci\014ed)f(algorithm)i(and)d(lea)m
(v)m(e)k(the)e(rest)g(of)150 1646 y(subsystem)c(in)m(tact.)150
1846 y Fu(12.6.2)63 b(Ov)m(erride)41 b(parts)g(of)h(the)f(bac)m(k)m
(end)150 1993 y FB(In)e(some)i(systems,)i(suc)m(h)d(as)g(em)m(b)s
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601 2346 V 41 w(crypto)p 897 2346 V 40 w(cipher)p 1180
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2456 y(bac)m(k)m(end.)225 2590 y Fy(\017)60 b FB([gn)m(utls)p

601 2590 V 41 w(crypto)p 897 2590 V 40 w(mac)p 1098 2590
V 41 w(register2,.)32 b(page)f(135)h(T)-8 b(o)30 b(o)m(v)m(erride)i
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897 2725 V 40 w(digest)p 1169 2725 V 41 w(register2,.)32
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w(rnd)p 1075 2859 V 39 w(register2,.)25 b(page)e(136)g(T)-8
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601 3103 V 41 w(crypto)p 897 3103 V 40 w(bigin)m(t)p
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40 w(pk)p 1036 3347 V 39 w(register2,.)34 b(page)e(136)h(T)-8
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(er)f(op)s(erations)h(so)g(either)g(b)s(oth)f(of)h(them)f(should)g(b)s
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(v)m(ersion)g(2,)g(hence)f(the)390 3658 y(v)m(ersion)h(n)m(um)m(b)s(er
e(2.1.)150 3843 y Fu(Pream)m(ble)150 3990 y FB(The)e(licenses)i(for)f
(most)g(soft)m(w)m(are)i(are)e(designed)g(to)h(tak)m(e)g(a)m(w)m(a)m(y)
h(y)m(our)e(freedom)g(to)h(share)e(and)h(c)m(hange)150
4099 y(it.)42 b(By)32 b(con)m(trast,)g(the)f(GNU)g(General)h(Public)f
(Licenses)g(are)g(in)m(tended)g(to)g(guaran)m(tee)h(y)m(our)f(freedom)

150 4209 y(to)g(share)f(and)g(c)m(hange)i(free)e(soft)m(w)m(are|to)j
(mak)m(e)e(sure)f(the)g(soft)m(w)m(are)i(is)e(free)h(for)f(all)h(its)g
(users.)150 4336 y(This)51 b(license,)59 b(the)52 b(Lesser)f(General)i
(Public)f(License,)58 b(apply)52 b(to)g(some)h(sp)s(pecially)f
(designated)150 4446 y(soft)m(w)m(are)t(m(ypically)i(libraries|of)d
(the)h(F)-8 b(ree)52 b(Soft)m(w)m(are)g(F)-8 b(oundation)51
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b(Y)-8 b(ou)30 b(can)f(use)f(it)i(to)s(o,)g(but)e(w)m(e)h(suggest)h(y)m
(ou)f(\014rst)f(think)h(carefully)g(ab)s(out)g(whether)150
4665 y(this)42 b(license)g(or)g(the)g(ordinary)f(General)i(Public)e
(License)i(is)e(the)h(b)s(etter)g(strategy)h(to)g(use)e(in)h(an)m(y)150
4774 y(particular)31 b(case,)g(based)f(on)h(the)f(explanations)i(b)s
(elo)m(w.)150 4902 y(When)d(w)m(e)g(sp)s(eak)f(of)h(free)g(soft)m(w)m
(are,)i(w)m(e)e(are)h(referring)e(to)h(freedom)g(of)g(use,)g(not)g
(price.)40 b(Our)28 b(General)150 5011 y(Public)34 b(Licenses)g(are)h
(designed)f(to)h(mak)m(e)g(sure)f(that)g(y)m(ou)h(ha)m(v)m(e)g(the)g
(freedom)f(to)g(distribute)g(copies)150 5121 y(of)i(free)h(soft)m(w)m
(are)g(\(and)f(c)m(harge)i(for)d(this)h(service)h(if)g(y)m(ou)f
(wish\);j(that)e(y)m(ou)f(receiv)m(e)i(source)f(co)s(de)f(or)150
5230 y(can)c(get)g(it)g(if)f(y)m(ou)h(w)m(an)m(t)g(it;)h(that)f(y)m(ou)
f(can)h(c)m(hange)g(the)g(soft)m(w)m(are)h(and)d(use)h(pieces)i(of)e
(it)h(in)f(new)g(free)150 5340 y(programs;)f(and)g(that)h(y)m(ou)g(are)
f(informed)g(that)h(y)m(ou)g(can)f(do)h(these)f(things.)p
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(restrictions)f(that)g(forbid)f(distributors)g(to)h(den)m(y)g(y)m(ou)
150 408 y(these)c(right)m(ts)g(or)g(to)g(ask)g(y)m(ou)g(to)g(surrender)d
(these)j(right)m(ts.)45 b(These)32 b(restrictions)g(translate)h(to)f
(certain)150 518 y(resp)s(onsibilities)e(for)h(y)m(ou)f(if)h(y)m(ou)f
(distribute)g(copies)h(of)g(the)f(library)g(or)h(if)h(y)m(ou)h(mo)s
(dify)e(it.)150 652 y(F)-8 b(or)36 b(example,)i(if)d(y)m(ou)h
(distribute)f(copies)h(of)g(the)f(library)-8 b(,)37 b(whether)e(gratis)
h(or)g(for)f(a)h(fee,)h(y)m(ou)f(m)m(ust)150 762 y(giv)m(e)k(the)f
(recipien)m(ts)h(all)g(the)e(right)m(ts)i(that)f(w)m(e)g(ga)m(v)m(e)i(y)
m(ou.)66 b(Y)-8 b(ou)40 b(m)m(ust)e(mak)m(e)i(sure)e(that)h(they)-8
b(,)42 b(to)s(o,)150 871 y(receiv)m(e)28 b(or)f(can)f(get)i(the)e
(source)h(co)s(de.)40 b(If)25 b(y)m(ou)i(link)f(other)h(co)s(de)g(with)
f(the)g(library)-8 b(,)28 b(y)m(ou)f(m)m(ust)f(pro)m(vid)e)150
981 y(complete)35 b(ob)5 b(ject)34 b(\014les)g(to)g(the)f(recipien)m
(ts,)j(so)d(that)i(they)e(can)h(relink)f(them)h(with)f(the)g(library)g
(after)150 1090 y(making)28 b(c)m(hanges)h(to)g(the)f(library)f(and)h
(recompiling)g(it.)41 b(And)27 b(y)m(ou)h(m)m(ust)g(sho)m(w)g(them)g
(these)g(terms)g(so)150 1200 y(they)j(kno)m(w)f(their)g(right)m(ts.)150
1334 y(W)-8 b(e)36 b(protect)g(y)m(our)f(right)m(ts)g(with)g(a)h(t)m(w)m
(o-step)g(metho)s(d:)50 b(\014)36 b(w)m(e)f(cop)m(y)right)m(t)h(the)g

(library)-8 b(,)36 b(and)e(\2))i(w)m(e)150 1443 y(o\013er)h(y)m(ou)f
(this)g(license,)j(whic)m(h)d(giv)m(es)h(y)m(ou)g(legal)h(p)s
(ermission)d(to)i(cop)m(y)-8 b(,)39 b(distribute)d(and/or)g(mo)s(dify)
150 1553 y(the)31 b(library)-8 b(.)150 1687 y(T)g(o)28
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g(it)f(v)m(ery)g(clear)h(that)g(there)f(is)g(no)f(w)m(arran)m(t)m(y)i
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b(if)f(the)g(library)f(is)h(mo)s(di\014ed)f(b)m(y)h(someone)g(else)h
(and)e(passed)g(on,)i(the)f(recipien)m(ts)150 1906 y(should)e(kno)m(w)i
(that)g(what)f(they)h(ha)m(v)m(e)g(is)g(not)f(the)h(original)g(v)m
(ersion,)h(so)f(that)g(the)f(original)i(author's)150
2016 y(reputation)c(will)f(not)h(b)s(e)f(a\013ected)i(b)m(y)e(problems)
g(that)h(migh)m(t)g(b)s(e)e(in)m(tro)s(duced)h(b)m(y)g(others.)150
2150 y(Finally)-8 b(,)35 b(soft)m(w)m(are)g(paten)m(ts)f(p)s(ose)f(a)g
(constan)m(t)i(threat)e(to)h(the)f(existence)i(of)e(an)m(y)h(free)f
(program.)49 b(W)-8 b(e)150 2259 y(wish)27 b(to)i(mak)m(e)f(sure)g
(that)g(a)g(compan)m(y)h(cannot)f(e\013ectiv)m(ely)j(restrict)d(the)g
(users)f(of)h(a)g(free)g(program)g(b)m(y)150 2369 y(obtaining)37
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2478 y(license)31 b(obtained)f(for)f(a)h(v)m(ersion)g(of)g(the)f
(library)g(m)m(ust)h(b)s(e)f(consisten)m(t)i(with)e(the)h(full)f
(freedom)h(of)f(use)150 2588 y(s)p(s(eci\014ed)h(in)g(this)g(license.)
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(GNU)h(General)150 2832 y(Public)c(License.)65 b(This)37
b(license,)k(the)e(GNU)g(Lesser)f(General)h(Public)f(License,)j
(applies)d(to)h(certain)150 2941 y(designed)d(libraries,)i(and)d(is)g
(quite)h(di\013eren)m(t)h(from)e(the)h(ordinary)f(General)h(Public)g
(License.)57 b(W)-8 b(e)150 3051 y(use)33 b(this)g(license)i(for)e
(certain)h(libraries)f(in)g(order)g(to)h(p)s(ermit)f(linking)g(those)h
(libraries)g(in)m(to)g(non-free)150 3160 y(programs.)150
3294 y(When)f(a)h(program)f(is)g(link)m(ed)h(with)f(a)g(library)-8
b(,)35 b(whether)d(statically)k(or)d(using)g(a)h(shared)e(library)-8
b(,)35 b(the)150 3404 y(com)m(bination)40 b(of)f(the)g(t)m(w)m(o)h(is)e
(legally)j(s)p(s(eaking)e(a)g(com)m(bined)g(w)m(ork,)i(a)e(deriv)-5
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b(,)73 b(The)41 b(ordinary)f(General)i(Public)f(License)h(therefore)g
(p)s(ermits)e(suc)m(h)h(linking)g(only)h(if)f(the)150
3623 y(en)m(tire)34 b(com)m(bination)h(\014ts)e(its)h(criteria)h(of)e
(freedom.)50 b(The)33 b(Lesser)g(General)i(Public)e(License)h(p)s
(ermits)150 3733 y(more)d(lax)g(criteria)g(for)f(linking)h(other)f(co)s
(de)h(with)f(the)h(library)-8 b(.)150 3867 y(W)g(e)34
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 (License)h(for)f(man)m(y)h(libraries.)39 b(Ho)m(w)m(ev)m(er,)31
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 b(an)m(tages)32 b(in)e(certain)h(sp)s(pecial)g(circumstances.)150
 4439 y(F)-8 b(or)24 b(example,)h(on)f(rare)f(o)s(ccasions,)j(there)d
 (ma)m(y)h(b)s(e)e(a)i(sp)s(pecial)g(need)f(to)h(encourage)g(the)f
 (widest)g(p)s(ossible)150 4548 y(use)34 b(of)h(a)g(certain)h(library)-8
 b(,)36 b(so)f(that)g(it)h(b)s(ecomes)f(a)g(de-facto)h(standard.)53
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 4658 y(programs)g(m)m(ust)f(b)s(e)h(allo)m(w)m(ed)i(to)e(use)g(the)g
 (library)-8 b(,)57 b(A)36 b(more)h(frequen)m(t)e(case)i(is)f(that)h(a)f
 (free)g(library)150 4768 y(do)s(es)d(the)h(same)g(job)f(as)h(widely)g
 (used)f(non-free)g(libraries.)51 b(In)32 b(this)i(case,)i(there)d(is)h
 (little)i(to)e(gain)g(b)m(y)150 4877 y(limiting)d(the)g(free)f(library)
 g(to)i(free)e(soft)m(w)m(are)i(only)-8 b(,)31 b(so)g(w)m(e)f(use)h(the)
 f(Lesser)g(General)i(Public)e(License.)150 5011 y(In)c(other)h(cases,)i
 (p)s(ermission)d(to)i(use)e(a)i(particular)f(library)f(in)h(non-free)g
 (programs)f(enables)h(a)h(greater)150 5121 y(n)m(um)m(b)s(er)i(of)i(p)s
 (eople)f(to)i(use)e(a)h(large)h(b)s(o)s(dy)d(of)h(free)h(soft)m(w)m
 (are.)46 b(F)-8 b(or)32 b(example,)h(p)s(ermission)d(to)i(use)g(the)150
 5230 y(GNU)39 b(C)f(Library)g(in)g(non-free)g(programs)g(enables)h(man)
 m(y)f(more)h(p)s(eople)f(to)h(use)f(the)h(whole)f(GNU)150
 5340 y(op)s(erating)31 b(system,)g(as)f(w)m(ell)i(as)e(its)h(v)-5
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 (e)j(of)d(the)h(users')e(freedom,)i(it)g(do)s(es)150
 408 y(ensure)i(that)i(the)f(user)g(of)g(a)g(program)g(that)h(is)f(link
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 518 y(wherewithal)f(to)h(run)e(that)i(program)f(using)g(a)h(mo)s
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 (library")g(and)g(a)h(\\w)m(ork)f(that)150 887 y(uses)j(the)h
 (library").62 b(The)37 b(former)g(con)m(tains)h(co)s(de)g(deriv)m(ed)g
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 997 y(m)m(ust)30 b(b)s(e)g(com)m(bined)h(with)f(the)g(library)g(in)g
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(b)m(y)g(the)g(cop)m(yrigh)m(t)h(holder)e(or)h(other)g(authorized)g
(part)m(y)g(sa)m(ying)g(it)g(ma)m(y)h(b)s(e)330 1681
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(Public)f(License)h(\(also)h(called)g(\(this)330 1790
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(ou").)330 1933 y(A)h(\(library")g(means)g(a)g(collection)j(of)d(soft)m
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(its)f(scop)s(e.)40 b(The)30 b(act)h(of)f(running)e(a)j(program)e
(using)h(the)g(Library)f(is)330 3675 y(not)24 b(restricted,)j(and)c
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(if)g(its)h(con)m(ten)m(ts)h(constitute)330 3784 y(a)g(w)m(ork)f(based)
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330 4255 y(as)c(y)m(ou)g(receiv)m(e)i(it,)g(in)d(an)m(y)h(medium,)g
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(eep)330 4475 y(in)m(tact)f(all)f(the)f(notices)h(that)g(refer)f(to)h
(this)f(License)g(and)g(to)h(the)f(absence)g(of)h(an)m(y)f(w)m(arran)m
(t)m(y);j(and)330 4584 y(distribute)g(a)h(cop)m(y)g(of)f(this)h
(License)g(along)g(with)f(the)h(Library)-8 b(.)330 4727
y(Y)g(ou)31 b(ma)m(y)g(c)m(harge)h(a)f(fee)g(for)f(the)h(ph)m(ysical)g
(act)h(of)f(transferring)f(a)h(cop)m(y)-8 b(,)32 b(and)e(y)m(ou)h(ma)m
(y)g(at)g(y)m(our)330 4836 y(option)g(o\013er)g(w)m(arran)m(t)m(y)g
(protection)h(in)e(exc)m(hange)i(for)e(a)g(fee.)199 4978
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(copies)i(of)f(the)g(Library)f(or)g(an)m(y)h(p)s(ortion)g(of)f(it,)j
(th)m(us)d(forming)h(a)330 5088 y(w)m(ork)k(based)g(on)g(the)h(Library)
-8 b(,)31 b(and)f(cop)m(y)i(and)f(distribute)g(suc)m(h)g(mo)s
(di\014cations)g(or)g(w)m(ork)g(under)330 5198 y(the)g(terms)f(of)g
(Section)i(1)e(ab)s(o)m(v)m(e,)i(pro)m(vided)e(that)h(y)m(ou)g(also)g
(meet)g(all)h(of)e(these)h(conditions:)379 5340 y(a.)61
b(The)30 b(mo)s(di\014ed)f(w)m(ork)i(m)m(ust)f(itself)h(b)s(e)f(a)h
(soft)m(w)m(are)g(library)-8 b(.)p eop end
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(c)m(hange.)384 538 y(c.)61 b(Y)-8 b(ou)41 b(m)m(ust)f(cause)g(the)h
(whole)f(of)h(the)f(w)m(ork)g(to)h(b)s(e)f(licensed)g(at)h(no)f(c)m
(harge)i(to)f(all)g(third)510 648 y(parties)31 b(under)e(the)h(terms)g
(of)h(this)f(License.)374 777 y(d.)60 b(If)43 b(a)i(facilit)m(y)h(in)d
(the)i(mo)s(di\014ed)d(Library)h(refers)h(to)h(a)f(function)f(or)h(a)h
(table)f(of)h(data)f(to)510 887 y(b)s(ed)supplied)f(b)m(y)i(an)f
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(y)m(ou)g(m)m(ust)g(mak)m(e)i(a)e(go)s(o)s(d)h(faith)510
1106 y(e\013ort)30 b(to)g(ensure)f(that,)h(in)f(the)g(ev)m(en)m(t)i(an)
e(application)i(do)s(es)e(not)g(supply)f(suc)m(h)h(function)g(or)510
1215 y(table,)f(the)d(facilit)m(y)j(still)e(op)s(erates,)h(and)e(p)s
(erforms)f(whatev)m(er)i(part)f(of)h(its)f(purp)s(ose)f(remains)510
1325 y(meaningful.)510 1455 y(\(F)-8 b(or)32 b(example,)g(a)f(function)
g(in)g(a)g(library)f(to)i(compute)f(square)g(ro)s(ots)g(has)g(a)g(purp)
s(ose)e(that)510 1564 y(is)35 b(en)m(tirely)i(w)m(ell-de\014ned)e
(indep)s(enden)m(t)f(of)h(the)g(application.)57 b(Therefore,)36
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(function)g(m)m(ust)510 1783 y(b)s(e)34 b(optional:)49
b(if)35 b(the)f(application)i(do)s(es)e(not)g(supply)f(it,)j(the)e
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2262 y(den)m(t)32 b(and)e(separate)j(w)m(orks)e(in)g(themselv)m(es,)i
(then)e(this)h(License,)g(and)f(its)h(terms,)f(do)h(not)f(apply)330
2371 y(to)26 b(those)g(sections)g(when)e(y)m(ou)i(distribute)e(them)i
(as)f(separate)h(w)m(orks.)39 b(But)26 b(when)e(y)m(ou)h(distribute)330
2481 y(the)32 b(same)g(sections)h(as)f(part)g(of)g(a)g(whole)g(whic)m
(h)g(is)f(a)i(w)m(ork)f(based)f(on)h(the)g(Library)-8
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(b)s(e)e(on)i(the)f(terms)g(of)h(this)f(License,)h(whose)f(p)s
(ermissions)g(for)g(other)330 2700 y(licensees)f(extend)f(to)g(the)g
(en)m(tire)h(whole,)g(and)e(th)m(us)g(to)i(eac)m(h)g(and)e(ev)m(ery)i
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2939 y(Th)m(us,)48 b(it)e(is)f(not)h(the)f(in)m(ten)m(t)h(of)g(this)f
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(ts)f(to)330 3049 y(w)m(ork)34 b(written)f(en)m(tirely)i(b)m(y)f(y)m
(ou,)h(rather,)g(the)f(in)m(ten)m(t)h(is)e(to)i(exercise)f(the)g(righ)m
(t)g(to)h(con)m(trol)g(the)330 3158 y(distribution)30
b(of)g(deriv)-5 b(ativ)m(e)32 b(or)f(collectiv)m(e)i(w)m(orks)e(based)f
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(storage)h(or)f(distribution)330 3507 y(media)h(do)s(es)i(not)f(bring)
g(the)g(other)h(w)m(ork)f(under)f(the)i(scop)s(e)f(of)h(this)f
(License.)199 3636 y(3.)61 b(Y)-8 b(ou)32 b(ma)m(y)g(opt)f(to)h(apply)f
(the)g(terms)h(of)f(the)g(ordinary)g(GNU)h(General)g(Public)f(License)h
(instead)330 3746 y(of)27 b(this)g(License)g(to)h(a)f(giv)m(en)h(cop)m
(y)f(of)g(the)g(Library)-8 b(.)40 b(T)-8 b(he)27 b(do)g(this,)g(y)m(ou)g
(m)m(ust)g(alter)h(all)g(the)f(notices)330 3856 y(that)44
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(the)330 4075 y(ordinary)c(GNU)i(General)g(Public)e(License)i(has)e
(app)s(eared,)h(then)g(y)m(ou)g(can)g(sp)s(ecify)g(that)g(v)m(ersion)
330 4184 y(instead)j(if)f(y)m(ou)h(wish.\))40 b(Do)31
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330 4314 y(Once)25 b(this)g(c)m(hange)h(is)e(made)h(in)g(a)g(giv)m(en)h
(cop)m(y)-8 b(,)27 b(it)f(is)f(irrev)m(ersible)g(for)g(that)g(cop)m(y)
-8 b(,)27 b(so)f(the)f(ordinary)330 4423 y(GNU)e(General)g(Public)e
(License)i(applyes)f(to)h(all)g(subsequen)m(t)e(copies)i(and)e(deriv)-5
b(ativ)m(e)24 b(w)m(orks)e(made)330 4533 y(from)30 b(that)h(cop)m(y)-8
b(.)330 4663 y(This)39 b(option)g(is)h(useful)f(when)f(y)m(ou)i(wish)e
(to)i(cop)m(y)h(part)e(of)g(the)h(cop)s(y)f(of)h(the)g(Library)e(in)m

(to)j(a)330 4772 y(program)30 b(that)h(is)g(not)f(a)h(library)-8
b(.)199 4902 y(4.)61 b(Y)-8 b(ou)25 b(ma)m(y)g(cop)m(y)g(and)f
(distribute)g(the)g(Library)g(\(or)g(a)h(p)s(ortion)f(or)g(deriv)-5
b(ativ)m(e)26 b(of)f(it,)h(under)d(Section)330 5011 y(2\))h(in)f(ob)5
b(ject)25 b(co)s(de)f(or)f(executable)i(form)e(under)f(the)i(terms)f
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5121 y(that)j(y)m(ou)f(accompan)m(y)h(it)g(with)e(the)h(complete)i
(corresp)s(onding)d(mac)m(hine-readable)i(source)f(co)s(de,)330
5230 y(whic)m(h)38 b(m)m(ust)g(b)s(e)f(distributed)g(under)f(the)j
(terms)e(of)i(Sections)f(1)h(and)e(2)h(ab)s(o)m(v)m(e)i(on)d(a)i
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(place)h(satis)014es)g(the)330 518 y(requiremen)m(t)i(to)g(distribute)f
(the)h(source)g(co)s(de,)g(ev)m(en)h(though)e(third)g(parties)h(are)g
(not)g(comp)s(elled)330 628 y(to)j(cop)m(y)g(the)g(source)f(along)i
(with)e(the)g(ob)5 b(ject)32 b(co)s(de.)199 778 y(5.)61
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(ork)g(that)g(uses)g(the)f(Library")h(with)f(the)h(Library)f(creates)i
(an)e(executable)330 1367 y(that)30 b(is)f(a)h(deriv)-5
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(the)g(Library)e(is)i(used)330 3984 y(in)g(it)i(and)e(that)h(the)g
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(License.)57 b(Y)-8 b(ou)36 b(m)m(ust)f(supply)330 4093
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(for)e(the)h(Library)f(among)h(them,)h(as)f(w)m(ell)h(as)e(a)h
(reference)330 4313 y(directing)d(the)g(user)e(to)i(the)g(cop)m(y)g(of)
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(source)510 4573 y(co)s(de)23 b(for)f(the)g(Library)f(including)h
(whatev)m(er)h(c)m(hanges)h(w)m(ere)e(used)g(in)g(the)g(w)m(ork)h
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5011 y(Library)28 b(and)g(then)h(relink)f(to)i(pro)s(duce)e(a)h(mo)s
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5121 y(Library)-8 b(.)58 b(\(It)36 b(is)g(understo)s(o)s(d)f(that)h
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(de\014nitions)510 5230 y(\014les)29 b(in)g(the)g(Library)f(will)h(not)
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b(Use)33 b(a)g(suitable)g(shared)f(library)h(mec)m(hanism)g(for)f
(linking)h(with)f(the)h(Library)-8 b(.)48 b(A)32 b(suitable)510
408 y(mec)m(hanism)h(is)h(one)f(that)h(\1)g(uses)f(at)h(run)d(time)j
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b(if)510 737 y(the)j(user)f(installs)i(one,)g(as)f(long)h(as)f(the)g
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(for)d(a)g(c)m(harge)h(no)f(more)510 1196 y(than)30 b(the)h(cost)g(of)g
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1435 y(place,)d(o\013er)e(equiv)-5 b(alen)m(t)33 b(access)f(to)g(cop)m
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4226 y(y)m(ears)i(and)f(v)-5 b(alid)35 b(for)f(as)g(long)h(as)g(y)m(ou)
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(terms)g(of)g(that)h(license)g(do)s(cumen)m(t,)g(pro)m(vided)e(that)330
5340 y(the)g(further)e(restriction)i(do)s(es)f(not)h(surviv)m(e)f(suc)m
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b(to)h(\014nd)e(out)p Fs(")p FB(,)k(Av)-5 b(ailable)21
b(from)f Fs(http://www.cs.auckland.ac)o(.nz/)o(~p)g(u)o(t00)o(1/p
FB(.)150 1553 y([NISTSP80057])630 1663 y(NIST)93 b(Sp)s(ECIAL)g
(Publication)i(800-57,)112 b Fs(")p FB(Recommendation)94
b(for)g(Key)f(Man-)630 1772 y(agemen)m(t)78 b(-)e(P)m(art)h(1:)133
b(General)77 b(\(Revised))p Fs(")p FB(,)89 b(Marc)m(h)77

b(2007,)90 b(a)m(v)-5 b(ailable)78 b(from)630 1882 y
Fs(<http://csrc.nist.gov/pub>)o(lica)o(tion)o(s/n)o(istp)o(ubs/)o(800)o
(-57/)o(sp80)o(0-5)o(7-Pa)o(rt1-)o(rev)o(ised)o(2_)630
1991 y(Mar08-2007.pdf)p FB(.)150 2150 y([RF]m(C2246))630
2259 y(Tim)33 b(Dierks)g(and)f(Christopher)g(Allen,)i
Fs("")p FB(The)e(TLS)g(Proto)s(col)i(V)-8 b(ersion)34
b(1.0)p Fs("")p FB(,)g(Jan)m(uary)630 2369 y(1999,)e(Av)-5
b(ailable)32 b(from)e Fs(<http://www.ietf.org/rfc/r>)o(fc22)o(46.t)o(xt)p
FB(.)150 2527 y([RF]m(C4346))630 2637 y(Tim)j(Dierks)h(and)g(Eric)f
(Rescorla,)j Fs("")p FB(The)d(TLS)g(Proto)s(col)i(V)-8
b(ersion)34 b(1.1)p Fs("")p FB(,)i(Matc)m(h)f(2006,)630
2746 y(Av)-5 b(ailable)32 b(from)e Fs(<http://www.ietf.org/rfc/>)o(rfc4)o
(346)o(txt)o FB(.)150 2905 y([RF]m(C2440))630 3014 y(Jon)98
b(Callas,)116 b(Lutz)99 b(Donnerhac)m(k)m(e,)117 b(Hal)99
b(Finney)f(and)g(Ro)s(dney)f(Tha)m(y)m(er,)630 3124 y
Fs("")p FB(Op)s(enPGP)126 b(Message)j(F)-8 b(ormat)p Fs("")p
FB(,)153 b(No)m(v)m(em)m(b)s(er)129 b(1998,)154 b(Av)-5
b(ailable)129 b(from)630 3233 y Fs(<http://www.ietf.org/rfc/>)o(rfc2)o
(440.)o(txt)o FB(.)150 3392 y([RF]m(C4880))630 3501 y(Jon)70
b(Callas,)81 b(Lutz)71 b(Donnerhac)m(k)m(e,)82 b(Hal)71
b(Finney)-8 b(,)81 b(Da)m(vid)71 b(Sha)m(w)f(and)g(Ro)s(dney)630
3611 y(Tha)m(y)m(er,)79 b Fs("")p FB(Op)s(enPGP)67 b(Message)j(F)-8
b(ormat)p Fs("")p FB(,)79 b(No)m(v)m(em)m(b)s(er)70 b(2007,)80
b(Av)-5 b(ailable)70 b(from)630 3720 y Fs(<http://www.ietf.org/rfc/>)o
(rfc4)o(880.)o(txt)o FB(.)150 3879 y([RF]m(C4211))630
3988 y(J.)77 b(Sc)m(haad,)90 b Fs("")p FB(In)m(ternet)77
b(X.509)i(Public)e(Key)h(Infrastructure)e(Certi)014cate)i(Re-)630
4098 y(quest)95 b(Message)h(F)-8 b(ormat)96 b(\(CRMF\))p
Fs("")p FB(,)112 b(Septem)m(b)s(er)94 b(2005,)113 b(Av)-5
b(ailable)96 b(from)630 4208 y Fs(<http://www.ietf.org/rfc/>)o(rfc4)o
(211.)o(txt)o FB(.)150 4366 y([RF]m(C2817))630 4475 y(Rohit)24
b(Khare)e(and)h(Scott)h(La)m(wrence,)h Fs("")p FB(Upgrading)e(to)h(TLS)e
(Within)h(HTTP/1.1)p Fs("")p FB(,)j(Ma)m(y)630 4585 y(2000,)32
b(Av)-5 b(ailable)32 b(from)e Fs(<http://www.ietf.org/rfc/r>)o(fc28)o
(17.t)o(xt)150 4743 y FB([RF]m(C2818))630 4853 y(Eric)107
b(Rescorla,)128 b Fs("")p FB(HTTP)106 b(Ov)m(er)i(TLS)p
Fs("")p FB(,)125 b(Ma)m(y)108 b(2000,)129 b(Av)-5 b(ailable)108
b(from)630 4963 y Fs(<http://www.ietf.org/rfc/r>)o(818.)o(txt)p
FB(.)150 5121 y([RF]m(C2945))630 5230 y(T)-8 b(om)37
b(W)-8 b(u,)39 b Fs("")p FB(The)e(SRP)f(Authen)m(tication)j(and)d(Key)h
(Exc)m(hange)h(System)p Fs("")p FB(,)h(Septem)m(b)s(er)630
5340 y(2000,)32 b(Av)-5 b(ailable)32 b(from)e Fs
(<http://www.ietf.org/rfc/r>)o(fc29)o(45.t)o(xt)p FB(.)p
eop end
%%Page: 331 337
TeXDict begin 331 336 bop 150 -116 a FB(Bibliograph)m(y)2956
b(331)150 299 y([RF]m(C2986))630 408 y(Magn)m(us)86 b(Nystrom)g(and)f
(Burt)h(Kaliski,)100 b Fs("")p FB(PK)m(CS)85 b(10)h(v1.7:)153

b(Certi\014cation)630 518 y(Request)125 b(Syn)m(tax)f(Sp)s
(eci\014cation)p Fs("")p FB(,)148 b(No)m(v)m(em)m(b)s(er)126
b(2000,)150 b(Av)-5 b(ailable)125 b(from)630 628 y Fs
(http://www.ietf.org/rfc/o/rfc2)o(986.)o(txt)o FB(,)150
788 y([RF)m(C3280)]630 897 y(Russell)43 b(Housley)-8
b(,)48 b(Tim)43 b(P)m(olk,)k(W)-8 b(arwic)m(k)45 b(F)-8
b(ord)44 b(and)e(Da)m(vid)j(Solo,)i Fs("")p FB(In)m(ternet)c(X.509)630
1007 y(Public)d(Key)h(Infrastructure)e(Certi\014cate)j(and)e
(Certi\014cate)i(Rev)m(o)s(cation)g(List)f(\(CRL\))630
1117 y(Pro\014le)p Fs("")p FB(,)26 b(April)f(2002,)j(Av)-5
b(ailable)27 b(from)d Fs(http://www.ietf.org/rfc/r)o(fc32)o(80.t)o(xt)p
FB(,)150 1277 y([RF)m(C3749)]630 1386 y(Scott)31 b(Hollen)m(b)s(ec)m
(k,)h Fs("")p FB(T)-8 b(ransp)s(ort)28 b(La)m(y)m(er)j(Securit)m(y)f
(Proto)s(col)h(Compression)e(Metho)s(ds)p Fs("")p FB(,)630
1496 y(Ma)m(y)j(2004,)g(Av)-5 b(ailable)32 b(from)e Fs
(http://www.ietf.org/rfc/o/rfc)o(3749)o(.txt)o FB(,)150
1656 y([RF)m(C3820)]630 1766 y(Stev)m(en)i(T)-8 b(uec)m(k)m(e,)34
b(V)-8 b(on)33 b(W)-8 b(alc)m(h,)34 b(Doug)e(Engert,)h(Laura)e(P)m
(earlman,)j(and)d(Mary)h(Thomp-)630 1875 y(son,)40 b
Fs("")p FB(In)m(ternet)e(X.509)h(Public)f(Key)g(Infrastructure)e
(\PKI\))i(Pro)m(xy)h(Certi\014cate)g(Pro-)630 1985 y(\014le)p
Fs("")p FB(,)30 b(June)g(2004,)i(a)m(v)-5 b(ailable)33
b(from)d Fs(http://www.ietf.org/rfc3)o(820)p FB(,)150
2145 y([PK)m(CS12)]93 b(RSA)35 b(Lab)s(oratories,)j Fs("")p
FB(PK)m(CS)c(12)i(v1.0:)52 b(P)m(ersonal)36 b(Information)f(Exc)m
(hange)i(Syn)m(tax)p Fs("")p FB(,)630 2255 y(June)29 b(1999,)k(Av)-5
b(ailable)32 b(from)e Fs(http://www.rsa.com)p FB(,)150
2415 y([RESCORLA])630 2524 y(Eric)g(Rescorla,)i Fs("")p
FB(SSL)d(and)h(TLS:)g(Designing)h(and)f(Building)g(Secure)g(Systems)p
Fs("")p FB(,)g(2001)150 2685 y([SELKEY])630 2794 y(Arjen)38
b(Lenstra)h(and)f(Eric)h(V)-8 b(erheul,)41 b Fs("")p FB(Selecting)f
(Cryptographic)f(Key)g(Sizes)p Fs("")p FB(,)i(2003,)630
2904 y(a)m(v)-5 b(ailable)33 b(from)d Fs(http://www.win.tue.nl/~o
(klen)o(str)o(a/ke)o(y.pd)o(f)p FB(,)150 3064 y([SSL3])226
b(Alan)29 b(F)-8 b(reier,)30 b(Philip)e(Karlton)g(and)g(P)m(aul)h(Ko)s
(c)m(her,)g Fs("")p FB(The)e(SSL)g(Proto)s(col)j(V)-8
b(ersion)29 b(3.0)p Fs("")p FB(,)630 3173 y(No)m(v)m(em)m(b)s(er)21
b(1996,)k(Av)-5 b(ailable)22 b(from)d Fs(http://wp.netscape.com/eng)o
(/ssl)o(3/d)o(raft)o(302)o(.txt)o FB(,)150 3334 y([STEVENs])630
3443 y(Ric)m(hard)47 b(Stev)m(ens,)52 b Fs("")p FB(UNIX)c(Net)m(w)m(ork)
h(Programming,)i(V)-8 b(olume)49 b(1)p Fs("")p FB(,)i(Pren)m(tice)e
(Hall)630 3553 y(PTR,)30 b(Jan)m(uary)g(1998)150 3713
y([TLSEXT])60 b(Simon)39 b(Blak)m(e-Wilson,)46 b(Magn)m(us)40
b(Nystrom,)j(Da)m(vid)e(Hop)m(w)m(o)s(o)s(d,)i(Jan)c(Mikk)m(elsen)j
(and)630 3823 y(Tim)31 b(W)-8 b(igh)m(t,)34 b Fs("")p
FB(T)-8 b(ransp)s(ort)31 b(La)m(y)m(er)j(Securit)m(y)f(\(TLS\))f
(Extensions)p Fs("")p FB(,)i(June)d(2003,)35 b(Av)-5 b(ail-)630
3932 y(able)31 b(from)f Fs(http://www.ietf.org/rfc/o/rfc)o(3546)o

(.txt)o FB(.)150 4092 y([TLSPGP])61 b(Nik)m(os)118 b(Ma)m(vrogiannop)s
(oulos,)141 b Fs("")p FB(Using)117 b(Op)s(enPGP)e(k)m(ey)s(j(for)f(TLS)f
(au-)630 4202 y(then)m(tication)p Fs("")p FB(,)151 b(April)125
b(2004,)151 b(No)m(v)m(em)m(b)s(er)126 b(2007.)328 b(Av)-5
b(ailable)126 b(from)630 4312 y Fs(http://www.ietf.org/rfc/)o(rfc5)o
(081.)o(txt)o FB(.)150 4472 y([TLSSRP])76 b(Da)m(vid)c(T)-8
b(a)m(ylor,)83 b(T)-8 b(rev)m(or)72 b(P)m(errin,)81 b(T)-8
b(om)72 b(W)-8 b(u)71 b(and)g(Nik)m(os)h(Ma)m(vrogiannop)s(oulos,)630
4581 y Fs("")p FB(Using)60 b(SRP)f(for)h(TLS)f(Authen)m(tication)p
Fs("")p FB(,)70 b(No)m(v)m(em)m(b)s(er)61 b(2007.)132
b(Av)-5 b(ailable)61 b(from)630 4691 y Fs(http://www.ietf.org/rfc/)o
(rfc5)o(054.)o(txt)o FB(.)150 4851 y([TLSPSK])72 b(P)m(asi)37
b(Eronen)f(and)g(Hannes)g(Tsc)m(hofenig,)j Fs("")p FB(Pre-shared)c(k)m
(ey)i(Ciphersuites)f(for)g(TLS)p Fs("")p FB(,)630 4961
y(Decem)m(b)s(er)31 b(2005,)i(Av)-5 b(ailable)32 b(from)d
Fs(http://www.ietf.org/rfc/rf)o(c427)o(9.t)o(xt)p FB(.)150
5121 y([TOMSRP])630 5230 y(T)-8 b(om)78 b(W)-8 b(u,)90
b Fs("")p FB(The)77 b(Stanford)f(SRP)h(Authen)m(tication)j(Pro)5
b(ject)p Fs("")p FB(,)90 b(Av)-5 b(ailable)79 b(at)630
5340 y Fs(http://srp.stanford.edu/)o FB(.)p eop end

%%Page: 332 338

TeXDict begin 332 337 bop 150 -116 a FB(Bibliograph)m(y)2956
b(332)150 299 y([WEGER])75 b(Arjen)49 b(Lenstra)h(and)f(Xiao)m(yun)h(W)
-8 b(ang)51 b(and)e(Benne)h(de)f(W)-8 b(eger,)56 b Fs("")p
FB(Colliding)50 b(X.509)630 408 y(Certi)014cates)p Fs("")p
FB(,)72 b(Cryptology)63 b(ePrin)m(t)g(Arc)m(hiv)m(e,)72
b(Rep)s(ort)62 b(2005/067,)75 b(Av)-5 b(ailable)64 b(at)630
518 y Fs(http://eprint.iacr.org/)p FB(.)p eop end

%%Page: 333 339

TeXDict begin 333 338 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(333)150 299 y Fx(F)-13 b(unction)52
b(and)h(Data)i(Index)150 610 y FA(A)150 728 y Fq
(alert-description->string)18 b Fa(:)h(:)13 b(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)44 b Fp(293)150 817
y Fq(alert-get)7 b Fa(:)16 b(:)d(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)34 b Fp(291)150 905 y Fq
(alert-level->string)16 b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)43
b Fp(293)150 993 y Fq(alert-send)24 b Fa(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(291)150 1082
y Fq(anonymous-client-credentials?)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(292)150
1170 y Fq(anonymous-server-credentials?)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(292)150
1427 y FA(B)150 1545 y Fq(bye)23 b Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h

(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)49
b Fp(291)150 1802 y FA(C)150 1921 y Fq(certificate-credentials?)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)47 b Fp(292)150 2009 y Fq(certificate-request->string)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(293)150 2097 y Fq(certificate-status->string)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(293)150 2186 y Fq(certificate-type->string)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)47 b Fp(292)150 2274 y Fq(certificate-verify->string)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(292)150 2362 y Fq(cipher->string)12 b Fa(:)k(:)d(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)g(:)g(:)h(:)f(:)38 b Fp(293)150 2450 y Fq
(cipher-suite->string)13 b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40
b Fp(290)150 2539 y Fq(close-request->string)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)38 b Fp(293)150 2627 y Fq(compression-method->string)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(293)150 2715 y Fq(connection-end->string)8 b
Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:h(:)f(:)g(:)g(:)35 b Fp(293)150 2803 y Fq(credentials->string)16
b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)43 b Fp(293)150 3061 y FA(D)150
3179 y Fq(dh-parameters?)12 b Fa(:)k(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:h(:)f(:)38 b Fp(292)150 3267 y Fq(digest->string)12
b Fa(:)k(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)38
b Fp(293)150 3524 y FA(E)150 3643 y Fq(error->string)21
b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)45 b Fp(281,)27
b(292)150 3900 y FA(G)150 4018 y Fq(gnutls-version)12
b Fa(:)k(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)38
b Fp(291)150 4106 y Fq(gnutls_alert_get)7 b Fa(:)16 b(:)d(:)h(:)f(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)33 b Fp(115)150 4195 y Fq(gnutls_alert_get_name)11
b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)38 b Fp(115)150 4283 y Fq(gnutls_alert_send)
25 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)48 b Fp(116)150
4371 y Fq(gnutls_alert_send_appropriate)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(115)150
4459 y Fq(gnutls_anon_allocate_client_c)q(rede)q(ntlal)q(s)325
4547 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h

(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(116)150 4635
y Fq(gnutls_anon_allocate_server_c)q(rede)q(ntl)q(s)325
4722 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(116)150 4810
y Fq(gnutls_anon_free_client_crede)q(ntl)q(ls)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(116)150 4899 y Fq
(gnutls_anon_free_server_crede)q(ntl)q(ls)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(116)150 4987 y Fq
(gnutls_anon_set_params_functi)q(on)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g
(:h(:)f(:)g(:)46 b Fp(117)150 5075 y Fq(gnutls_anon_set_server_dh_par
q(ams)18 b Fa(:)g(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)44 b
Fp(117)150 5163 y Fq(gnutls_anon_set_server_params)q(_fun)q(ction)25
b Fa(:)14 b(:)45 b Fp(117)150 5252 y Fq(gnutls_auth_client_get_type)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(117)150 5340 y Fq(gnutls_auth_get_type)13 b Fa(:)18
b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)40 b Fp(117)2025 610 y Fq
(gnutls_auth_server_get_type)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g
(:h(:)f(:)g(:)g(:)g(:)g(:)40 b Fp(118)2025 698 y
Fq(gnutls_bye)24 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)49 b Fp(118)2025 786 y Fq
(gnutls_certificate_activation_)q(time_)q(peer)q(s)2200
873 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(119)2025 961
y Fq(gnutls_certificate_allocate_cr)q(edent)q(ials)2200
1048 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(119)2025 1136
y Fq(gnutls_certificate_client_get_)q(reque)q(st_)2178
1223 y(status)6 b Fa(:)15 b(:)e(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)33 b Fp(119)2025 1310 y Fq
(gnutls_certificate_client_set_)q(retri)q(eve_)2178 1398
y(function)18 b Fa(:)e(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)45 b Fp(119)2025 1485 y Fq(gnutls_certificate_expiration_)q(time_)q
(peer)q(s)2200 1573 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49 b
Fp(120)2025 1660 y Fq(gnutls_certificate_free_ca_nam)q(es)17
b Fa(:)i(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(120)2025
1748 y Fq(gnutls_certificate_free_cas)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(120)2025 1836 y Fq(gnutls_certificate_free_creden)q(tials)10
b Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(120)2025 1924

y Fq(gnutls_certificate_set_params_)q(func)tq(ion)25
b Fa(:)13 b(:)46 b Fp(123)2025 4201 y Fq
(gnutls_certificate_set_rsa_exp)q(ort_p)q(aram)q(s)2200
4288 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(123)2025 4376
y Fq(gnutls_certificate_set_verify_)q(flags)10 b Fa(:)19
b(:)13 b(:)g(:)h(:)f(:)36 b Fp(124)2025 4464 y Fq
(gnutls_certificate_set_verify_)q(limit)q(s)7 b Fa(:)19
b(:)13 b(:)g(:)g(:)34 b Fp(124)2025 4551 y Fq
(gnutls_certificate_set_x509_cr)q(l)25 b Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)h(:)46 b Fp(125)2025 4639 y Fq
(gnutls_certificate_set_x509_cr)q(l_fil)q(e)7 b Fa(:)19
b(:)13 b(:)g(:)g(:)34 b Fp(124)2025 4727 y Fq
(gnutls_certificate_set_x509_cr)q(l_mem)10 b Fa(:)19
b(:)13 b(:)g(:)h(:)f(:)36 b Fp(124)2025 4815 y Fq
(gnutls_certificate_set_x509_ke)q(y)25 b Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)h(:)46 b Fp(126)2025 4902 y Fq
(gnutls_certificate_set_x509_ke)q(y_fil)q(e)7 b Fa(:)19
b(:)13 b(:)g(:)g(:)34 b Fp(125)2025 4990 y Fq
(gnutls_certificate_set_x509_ke)q(y_mem)10 b Fa(:)19
b(:)13 b(:)g(:)h(:)f(:)36 b Fp(125)2025 5078 y Fq
(gnutls_certificate_set_x509_si)q(mple_)q(pkcs)q(12_)2178
5165 y(file)12 b Fa(:)i(:)f(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)
(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)h(:)38 b Fp(126)2025 5253 y Fq
(gnutls_certificate_set_x509_si)q(mple_)q(pkcs)q(12_)2178
5340 y(mem)14 b Fa(:)g(:)f(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)41 b Fp(127)p eop end
%%Page: 334 340
TeXDict begin 334 339 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(334)150 299 y Fq
(gnutls_certificate_set_x509_t)q(rust)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(128)150 387 y Fq
(gnutls_certificate_set_x509_t)q(rust)q(_file)25 b Fa(:)14
b(:)45 b Fp(127)150 476 y Fq(gnutls_certificate_set_x509_t)q(rust)q
(_mem)28 b Fa(:)13 b(:)g(:)48 b Fp(128)150 564 y Fq
(gnutls_certificate_type_get)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(129)150 653 y
Fq(gnutls_certificate_type_get_i)q(d)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
(:)g(:)g(:)g(:)g(:)49 b Fp(129)150 741 y Fq
(gnutls_certificate_type_get_n)q(ame)18 b Fa(:)g(:)c(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)44 b Fp(129)150 830 y Fq(gnutls_certificate_type_list)11
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37
b Fp(129)150 918 y Fq(gnutls_certificate_type_set_p)q(rior)q(ity)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(129)150 1006 y Fq
(gnutls_certificate_verify fla)q(gs)28 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h

(:f(:)g(:)g(:)g(:)48 b Fp(25)150 1095 y Fq
(gnutls_certificate_verify_peek)(rs)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g
(:h(:)f(:)g(:)46 b Fp(130)150 1183 y Fq(gnutls_certificate_verify_peek)
q(rs2)18 b Fa(:)g(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)44 b
Fp(130)150 1272 y Fq(gnutls_check_version)13 b Fa(:)18
b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)40 b Fp(130)150 1360 y Fq(gnutls_cipher_get)25
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)48 b Fp(131)150
1449 y Fq(gnutls_cipher_get_id)13 b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40
b Fp(131)150 1537 y Fq(gnutls_cipher_get_key_size)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(131)150 1625 y Fq(gnutls_cipher_get_name)8 b
Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g
(:h(:)f(:)g(:)g(:)35 b Fp(131)150 1714 y Fq(gnutls_cipher_list)23
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)45 b Fp(131)150 1802
y Fq(gnutls_cipher_set_priority)16 b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(132)150 1891
y Fq(gnutls_cipher_suite_get_name)11 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37 b
Fp(132)150 1979 y Fq(gnutls_cipher_suite_info)26 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47
b Fp(132)150 2068 y Fq(gnutls_compression_get)8 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)35 b Fp(133)150 2156 y Fq(gnutls_compression_get_id)18
b Fa(:)h(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:44 b Fp(133)150 2245 y Fq(gnutls_compression_get_name)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(133)150 2333 y Fq(gnutls_compression_list)28 b Fa(:)13
b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:50 b Fp(133)150 2421 y Fq(gnutls_compression_set_priority)q(ty)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(133)150
2510 y Fq(gnutls_credentials_clear)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(134)150
2598 y Fq(gnutls_credentials_set)8 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g
(:g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)35
b Fp(134)150 2687 y Fq(gnutls_crypto_bigint_register)q(2)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49
b Fp(134)150 2775 y Fq(gnutls_crypto_cipher_register)q(2)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49
b Fp(135)150 2864 y Fq(gnutls_crypto_digest_register)q(2)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49
b Fp(135)150 2952 y Fq(gnutls_crypto_mac_register)2)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(135)150 3041 y Fq(gnutls_crypto_pk_register)2)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)

42 b Fp(136)150 3129 y Fq(gnutls_crypto_rmd_register2)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(136)150 3217 y Fq(gnutls_crypto_single_cipher_r)q(egis)q(ter2)28
b Fa(:)13 b(:)g(:)48 b Fp(137)150 3306 y Fq
(gnutls_crypto_single_digest_r)q(egis)q(ter2)28 b Fa(:)13
b(:)g(:)48 b Fp(137)150 3394 y Fq(gnutls_crypto_single_mac_regi)q(ster)
q(2)12 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(137)150
3483 y Fq(gnutls_db_check_entry)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)38
b Fp(138)150 3571 y Fq(gnutls_db_get_ptr)25 b Fa(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)48 b Fp(138)150 3660 y
Fq(gnutls_db_remove_session)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(138)150
3748 y Fq(gnutls_db_set_cache_expiratio)q(n)28 b Fa(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49 b Fp(138)150
3836 y Fq(gnutls_db_set_ptr)25 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
48 b Fp(139)150 3925 y Fq(gnutls_db_set_remove_function)9
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(139)150 4013 y Fq(gnutls_db_set_retrieve_functi)q(on)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(139)150
4102 y Fq(gnutls_db_set_store_function)11 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37 b
Fp(139)150 4190 y Fq(gnutls_deinit)14 b Fa(:)i(:)d(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)41 b Fp(140)150 4279 y Fq(gnutls_dh_get_group)
16 b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)43 b Fp(140)150 4367 y
Fq(gnutls_dh_get_peers_public_bi)q(ts)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)46 b Fp(140)150 4456 y Fq(gnutls_dh_get_prime_bits)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)47 b Fp(140)150 4544 y Fq(gnutls_dh_get_pubkey)13
b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40 b Fp(140)150 4632 y
Fq(gnutls_dh_get_secret_bits)18 b Fa(:)h(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)44 b Fp(141)150 4721
y Fq(gnutls_dh_params_cpy)13 b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40
b Fp(141)150 4809 y Fq(gnutls_dh_params_deinit)28 b Fa(:)13
b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g
(:)50 b Fp(141)150 4898 y Fq(gnutls_dh_params_export_pkcs3)9
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(141)150 4986 y Fq(gnutls_dh_params_export_raw)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(142)150 5075 y Fq(gnutls_dh_params_generate2)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(142)150 5163 y Fq(gnutls_dh_params_import_pkcs3)9

b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(142)150 5252 y Fq(gnutls_dh_params_import_raw)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(143)150 5340 y Fq(gnutls_dh_params_init)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)38 b Fp(143)2025 299 y Fq(gnutls_dh_set_prime_bits)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)47 b Fp(143)2025 387 y Fq(gnutls_error_is_fatal)11
b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)38 b Fp(143)2025 476 y Fq
(gnutls_error_to_alert)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)g
h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)38
b Fp(144)2025 564 y Fq(gnutls_ext_register)16 b Fa(:)h(:)c(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)43 b Fp(144)2025 653 y Fq(gnutls_extra_check_version)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(242)2025 741 y Fq(gnutls_fingerprint)22 b Fa(:)14
b(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)45 b Fp(144)2025 830 y Fq(gnutls_free)22
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46
b Fp(145)2025 918 y Fq(gnutls_global_deinit)13 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)40 b Fp(145)2025 1007 y Fq(gnutls_global_init)22
b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)45 b Fp(145)2025 1095
y Fq(gnutls_global_init_extra)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)g
h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(242)2025
1184 y Fq(gnutls_global_set_log_function)29 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49 b Fp(145)2025
1272 y Fq(gnutls_global_set_log_level)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(146)2025 1361 y Fq(gnutls_global_set_mem_function)q(s)25
b Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)46 b Fp(146)2025
1449 y Fq(gnutls_handshake)7 b Fa(:)16 b(:)d(:)g(:)g(:)h(:)f(:)g(:)g
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)h(:)33 b Fp(148)2025 1538 y Fq(gnutls_handshake_get_last_in)11
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)37
b Fp(146)2025 1626 y Fq(gnutls_handshake_get_last_out)8
b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(147)2025 1715 y Fq(gnutls_handshake_set_max_packet_size)q(t_len)q(gth)25
b Fa(:)13 b(:)46 b Fp(147)2025 1803 y Fq
(gnutls_handshake_set_post_client)q(nt_he)q(llo_)2178 1890
y(function)18 b Fa(:)e(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)
f(:)45 b Fp(147)2025 1979 y Fq(gnutls_handshake_set_private_key)q(xtens)q
(ions)2200 2066 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)

g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(148)2025
2154 y Fq(gnutls_hex_decode)25 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
48 b Fp(149)2025 2243 y Fq(gnutls_hex_encode)25 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)48 b Fp(149)2025 2331
y Fq(gnutls_hex2bin)12 b Fa(:)k(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)39 b Fp(148)2025 2420 y Fq(gnutls_ia_allocate_client_cred)q(entia)q
(ls)27 b Fa(:)14 b(:)f(:)48 b Fp(262)2025 2508 y Fq
(gnutls_ia_allocate_server_cred)q(entia)q(ls)27 b Fa(:)14
b(:)f(:)48 b Fp(263)2025 2597 y Fq(gnutls_ia_enable)7
b Fa(:)16 b(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)33 b Fp(263)2025
2685 y Fq(gnutls_ia_endphase_send)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)50 b
Fp(263)2025 2774 y Fq(gnutls_ia_extract_inner_secret)29
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49
b Fp(264)2025 2862 y Fq(gnutls_ia_free_client_credenti)q(als)15
b Fa(:)k(:)13 b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(264)2025
2951 y Fq(gnutls_ia_free_server_credenti)q(als)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(264)2025 3039 y Fq
(gnutls_ia_generate_challenge)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(264)2025 3128 y Fq
(gnutls_ia_get_client_avp_ptr)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(265)2025 3216 y Fq
(gnutls_ia_get_server_avp_ptr)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(265)2025 3305 y Fq(gnutls_ia_handshake)
16 b Fa(:)h(:)c(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)43 b Fp(265)2025 3393
y Fq(gnutls_ia_handshake_p)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)38
b Fp(265)2025 3482 y Fq(gnutls_ia_permute_inner_secret)29
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49
b Fp(265)2025 3570 y Fq(gnutls_ia_recv)12 b Fa(:)k(:)d(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)39 b Fp(266)2025 3659 y Fq(gnutls_ia_send)12
b Fa(:)k(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)39
b Fp(266)2025 3747 y Fq(gnutls_ia_set_client_avp_func)q(ion)15
b Fa(:)k(:)13 b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(267)2025
3836 y Fq(gnutls_ia_set_client_avp_ptr)11 b Fa(:)18 b(:)c(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(267)2025 3924
y Fq(gnutls_ia_set_server_avp_func)q(ion)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(267)2025 4013 y Fq
(gnutls_ia_set_server_avp_ptr)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(268)2025 4101 y Fq
(gnutls_ia_verify_endphase)18 b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g

(:g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)45 b Fp(268)2025 4190
y Fq(gnutls_init)22 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)46 b Fp(149)2025 4278 y Fq(gnutls_kx_get)14
b Fa(:)i(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)41
b Fp(150)2025 4367 y Fq(gnutls_kx_get_id)7 b Fa(:)16
b(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
(:g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)33 b Fp(149)2025
4455 y Fq(gnutls_kx_get_name)22 b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)
(:h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)45
b Fp(150)2025 4544 y Fq(gnutls_kx_list)12 b Fa(:)k(:)d(:)g(:)g(:)g(:)g(:)
(:h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)39 b Fp(150)2025 4632 y Fq
(gnutls_kx_set_priority)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35 b
Fp(150)2025 4721 y Fq(gnutls_mac_get)12 b Fa(:)k(:)d(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)g(:)39 b Fp(151)2025 4809 y Fq(gnutls_mac_get_id)25
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)48 b Fp(150)2025
4898 y Fq(gnutls_mac_get_key_size)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)50 b
Fp(151)2025 4986 y Fq(gnutls_mac_get_name)16 b Fa(:)h(:)c(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)43 b Fp(151)2025 5075 y Fq(gnutls_mac_list)9 b Fa(:)16
b(:)e(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)36 b Fp(151)2025
5163 y Fq(gnutls_mac_set_priority)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)50 b
Fp(151)2025 5251 y Fq(gnutls_malloc)14 b Fa(:)i(:)d(:)g(:)g(:)h(:)f(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(152)2025 5340 y Fq
(gnutls_openpgp_cert_check_hostn)q(ame)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(245)p eop end
%%Page: 335 341
TeXDict begin 335 340 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(335)150 299 y Fq(gnutls_openpgp_cert_deinit)
18 b Fa(:)h(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:h(:)44 b Fp(245)150 390 y Fq(gnutls_openpgp_cert_export)18
b Fa(:)h(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h
(:44 b Fp(245)150 480 y Fq(gnutls_openpgp_cert_get_auth_s)q(ubke)q(y)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)39 b Fp(246)150
571 y Fq(gnutls_openpgp_cert_get_creati)q(on_t)q(ime)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(246)150 662 y Fq
(gnutls_openpgp_cert_get_expira)q(tion)q(_time)25 b Fa(:)14
b(:)45 b Fp(246)150 752 y Fq(gnutls_openpgp_cert_get_finger)q(prin)q(t)
12 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)39 b Fp(246)150

843 y Fq(gnutls_openpgp_cert_get_key_id)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(247)150
934 y Fq(gnutls_openpgp_cert_get_key_us)q(age)18 b Fa(:)g(:)c(:)f(:)g(:)
g(:)g(:)g(:)g(:)44 b Fp(247)150 1025 y Fq(gnutls_openpgp_cert_get_name)
13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:)39 b Fp(247)150 1115 y Fq(gnutls_openpgp_cert_get_pk_alg)q(orit)q(hm)
10 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)36 b Fp(247)150 1206
y Fq(gnutls_openpgp_cert_get_pk_dsa)q(_raw)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(248)150 1297 y Fq
(gnutls_openpgp_cert_get_pk_rsa)q(_raw)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(248)150 1387 y Fq
(gnutls_openpgp_cert_get_prefer)q(red_)q(key_i)q(d)325
1475 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(248)150 1565
y Fq(gnutls_openpgp_cert_get_revoke)q(d_st)q(atus)28 b
Fa(:)13 b(:)g(:)48 b Fp(248)150 1656 y Fq
(gnutls_openpgp_cert_get_subkey)q(_cou)q(nt)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(249)150 1747 y Fq
(gnutls_openpgp_cert_get_subkey)q(_cre)q(ation)q(_tim)q(e)325
1834 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(249)150 1925
y Fq(gnutls_openpgp_cert_get_subkey)q(_exp)q(irati)q(on_)304
2012 y(time)12 b Fa(:)h(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)38 b Fp(249)150 2103 y Fq
(gnutls_openpgp_cert_get_subkey)q(_fin)q(gerpr)q(int)325
2190 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(249)150 2280
y Fq(gnutls_openpgp_cert_get_subkey)q(_id)18 b Fa(:)g(:)c(:)f(:)g(:)g(:)
g(:)g(:)g(:)44 b Fp(250)150 2371 y Fq(gnutls_openpgp_cert_get_subkey)q
(_idx)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(250)150
2462 y Fq(gnutls_openpgp_cert_get_subkey)q(_pk_)q(algor)q(ithm)325
2549 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(250)150 2640
y Fq(gnutls_openpgp_cert_get_subkey)q(_pk_)q(dsa_r)q(aw)325
2727 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(250)150 2818
y Fq(gnutls_openpgp_cert_get_subkey)q(_pk_)q(rsa_r)q(aw)325
2905 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(251)150 2996
y Fq(gnutls_openpgp_cert_get_subkey)q(_rev)q(oked_)304
3083 y(status)6 b Fa(:)15 b(:)e(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g

(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)33 b Fp(251)150 3173 y Fq
(gnutls_openpgp_cert_get_subkey)q(_usa)q(ge)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(251)150 3264 y Fq
(gnutls_openpgp_cert_get_versio)q(n)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)49 b Fp(252)150 3355 y Fq(gnutls_openpgp_cert_import)
18 b Fa(:)h(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:h(:)44 b Fp(252)150 3446 y Fq(gnutls_openpgp_cert_init)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)50 b Fp(252)150 3536 y Fq(gnutls_openpgp_cert_print)26
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)47 b Fp(252)150 3627 y Fq(gnutls_openpgp_cert_set_prefer)q(red_)q
(key_i)q(d)325 3714 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b
Fp(253)150 3805 y Fq(gnutls_openpgp_cert_verify_rin)q(g)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49
b Fp(253)150 3896 y Fq(gnutls_openpgp_cert_verify_sel)q(f)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49
b Fp(253)150 3986 y Fq(gnutls_openpgp_keyring_check_)q(id)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(253)150
4077 y Fq(gnutls_openpgp_keyring_deinit)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(254)150
4168 y Fq(gnutls_openpgp_keyring_get_cr)q(t)28 b Fa(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49 b Fp(254)150
4258 y Fq(gnutls_openpgp_keyring_get_cr)q(t_co)q(unt)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(254)150 4349 y Fq
(gnutls_openpgp_keyring_import)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)34 b Fp(254)150 4440 y Fq
(gnutls_openpgp_keyring_init)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(255)150 4531 y
Fq(gnutls_openpgp_privkey_deinit)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(255)150 4621 y Fq
(gnutls_openpgp_privkey_export)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)34 b Fp(257)150 4712 y Fq
(gnutls_openpgp_privkey_export)q(_dsa)q(_raw)28 b Fa(:)13
b(:)g(:)48 b Fp(255)150 4803 y Fq(gnutls_openpgp_privkey_export)q(_rsa)
q(_raw)28 b Fa(:)13 b(:)g(:)48 b Fp(255)150 4893 y Fq
(gnutls_openpgp_privkey_export)q(_sub)q(key_d)q(sa_)304
4981 y(raw)14 b Fa(:)g(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:h(:)f(:)g(:)g(:)g(:)41 b Fp(256)150 5071 y Fq
(gnutls_openpgp_privkey_export)q(_sub)q(key_r)q(sa_)304
5159 y(raw)14 b Fa(:)g(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
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(:h(:)f(:)g(:)g(:)g(:)41 b Fp(256)150 5249 y Fq
(gnutls_openpgp_privkey_get_fi)q(nger)q(print)25 b Fa(:)14
b(:)45 b Fp(257)150 5340 y Fq(gnutls_openpgp_privkey_get_ke)q(y_id)15

b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(257)2025
299 y Fq(gnutls_openpgp_privkey_get_pk_)q(algor)q(ithm)2200
386 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(258)2025 475
y Fq(gnutls_openpgp_privkey_get_pre)q(ferre)q(d_ke)q(y_id)2200
562 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(258)2025 651
y Fq(gnutls_openpgp_privkey_get_rev)q(oked_)q(stat)q(us)2200
738 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(258)2025 827
y Fq(gnutls_openpgp_privkey_get_sub)q(key_c)q(ount)2200
914 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(258)2025 1002
y Fq(gnutls_openpgp_privkey_get_sub)q(key_c)q(reat)q(ion_)2178
1090 y(time)12 b Fa(:)i(:)f(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)h(:)38 b Fp(259)2025 1178 y Fq
(gnutls_openpgp_privkey_get_sub)q(key_)2178 1265 y(expiration_time)18
b Fa(:)f(:)c(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)g(:)45 b Fp(259)2025 1354 y Fq
(gnutls_openpgp_privkey_get_sub)q(key_)2178 1441 y(fingerprint)11
b Fa(:)16 b(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)38
b Fp(259)2025 1530 y Fq(gnutls_openpgp_privkey_get_sub)q(key_i)q(d)7
b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(260)2025 1619 y
Fq(gnutls_openpgp_privkey_get_sub)q(key_i)q(dx)27 b Fa(:)14
b(:)f(:)48 b Fp(259)2025 1707 y Fq(gnutls_openpgp_privkey_get_sub)q
(key_p)q(k_)2178 1795 y(algorithm)16 b Fa(:)f(:)f(:)f(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)43 b Fp(260)2025 1883 y Fq
(gnutls_openpgp_privkey_get_sub)q(key_r)q(evok)q(ed_)2178
1971 y(status)6 b Fa(:)15 b(:)e(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)33 b Fp(260)2025 2059 y Fq
(gnutls_openpgp_privkey_import)8 b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)34 b Fp(260)2025 2148 y Fq
(gnutls_openpgp_privkey_init)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)40 b Fp(261)2025 2237
y Fq(gnutls_openpgp_privkey_set_pre)q(ferre)q(d_ke)q(y_id)2200
2324 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(261)2025 2413
y Fq(gnutls_openpgp_privkey_sign_ha)q(sh)17 b Fa(:)i(:)13
b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)44 b Fp(261)2025 2501 y Fq

(gnutls_openpgp_send_cert)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(152)2025
2590 y Fq(gnutls_openpgp_set_recv_key_fu)q(nctio)q(n)7
b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(261)2025 2679 y
Fq(gnutls_oprfi_enable_client)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(152)2025 2767
y Fq(gnutls_oprfi_enable_server)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(152)2025 2856
y Fq(gnutls_pem_base64_decode)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(153)2025
2945 y Fq(gnutls_pem_base64_decode_alloc)29 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49 b Fp(153)2025
3034 y Fq(gnutls_pem_base64_encode)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(154)2025
3122 y Fq(gnutls_pem_base64_encode_alloc)29 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49 b Fp(153)2025
3211 y Fq(gnutls_perror)14 b Fa(:)i(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g
h(:)f(:)g(:)41 b Fp(154)2025 3300 y Fq(gnutls_pk_algorithm_get_name)11
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)37
b Fp(154)2025 3388 y Fq(gnutls_pk_get_id)7 b Fa(:)16
b(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)33 b Fp(154)2025
3477 y Fq(gnutls_pk_get_name)22 b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)45
b Fp(155)2025 3566 y Fq(gnutls_pk_list)12 b Fa(:)k(:)d(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)39 b Fp(155)2025 3654 y Fq
(gnutls_pkcs12_bag_decrypt)18 b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)45 b Fp(181)2025 3743
y Fq(gnutls_pkcs12_bag_deinit)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(181)2025
3832 y Fq(gnutls_pkcs12_bag_encrypt)18 b Fa(:)g(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)45
b Fp(182)2025 3921 y Fq(gnutls_pkcs12_bag_get_count)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(182)2025 4009 y Fq(gnutls_pkcs12_bag_get_data)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(182)2025 4098 y Fq(gnutls_pkcs12_bag_get_friendly)q(_name)10
b Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(182)2025 4187
y Fq(gnutls_pkcs12_bag_get_key_id)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(183)2025 4275 y Fq
(gnutls_pkcs12_bag_get_type)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(183)2025 4364
y Fq(gnutls_pkcs12_bag_init)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35
b Fp(183)2025 4453 y Fq(gnutls_pkcs12_bag_set_crl)18
b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g

(:)45 b Fp(183)2025 4542 y Fq(gnutls_pkcs12_bag_set_crt)18
b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)45 b Fp(183)2025 4630 y Fq(gnutls_pkcs12_bag_set_data)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(184)2025 4719 y Fq(gnutls_pkcs12_bag_set_friendly)q(_name)10
b Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(184)2025 4808
y Fq(gnutls_pkcs12_bag_set_key_id)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(184)2025 4896 y Fq
(gnutls_pkcs12_deinit)13 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)40
b Fp(184)2025 4985 y Fq(gnutls_pkcs12_export)13 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)40 b Fp(185)2025 5074 y Fq
(gnutls_pkcs12_generate_mac)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(185)2025 5163
y Fq(gnutls_pkcs12_get_bag)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)38
b Fp(185)2025 5251 y Fq(gnutls_pkcs12_import)13 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)40 b Fp(185)2025 5340 y Fq(gnutls_pkcs12_init)22
b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)45 b Fp(186)p eop
end
%%Page: 336 342
TeXDict begin 336 341 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(336)150 299 y Fq(gnutls_pkcs12_set_bag)11
b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)38 b Fp(186)150 387 y Fq
(gnutls_pkcs12_verify_mac)26 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(186)150 476
y Fq(gnutls_pkcs7_deinit)16 b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)43
b Fp(186)150 564 y Fq(gnutls_pkcs7_delete_crl)28 b Fa(:)13
b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)50 b Fp(186)150 653 y Fq(gnutls_pkcs7_delete_crt)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)50 b Fp(187)150 741 y Fq(gnutls_pkcs7_export)16
b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)43 b Fp(187)150 830 y Fq
(gnutls_pkcs7_get_crl_count)16 b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)42 b Fp(187)150 918 y
Fq(gnutls_pkcs7_get_crl_raw)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(187)150
1007 y Fq(gnutls_pkcs7_get_crt_count)16 b Fa(:)i(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42
b Fp(188)150 1095 y Fq(gnutls_pkcs7_get_crt_raw)26 b
Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)47 b Fp(188)150 1184 y Fq(gnutls_pkcs7_import)16

b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)g(:)43 b Fp(188)150 1272 y Fq
(gnutls_pkcs7_init)25 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)48
b Fp(188)150 1361 y Fq(gnutls_pkcs7_set_crl)13 b Fa(:)18
b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)40 b Fp(189)150 1449 y Fq(gnutls_pkcs7_set_crl_raw)
26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)47 b Fp(189)150 1538 y Fq(gnutls_pkcs7_set_crt)13
b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40 b Fp(189)150 1626 y
Fq(gnutls_pkcs7_set_crt_raw)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(189)150
1715 y Fq(gnutls_prf)24 b Fa(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)49 b Fp(156)150 1803 y Fq(gnutls_prf_raw)12
b Fa(:)k(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)38
b Fp(155)150 1892 y Fq(gnutls_priority_deinit)8 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)35 b Fp(156)150 1980 y Fq(gnutls_priority_init)13
b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40 b Fp(156)150 2069 y
Fq(gnutls_priority_set)16 b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)43
b Fp(158)150 2157 y Fq(gnutls_priority_set_direct)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(158)150 2246 y Fq(gnutls_protocol_get_id)8 b
Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)35 b Fp(158)150 2334 y Fq(gnutls_protocol_get_name)
26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)47 b Fp(158)150 2423 y Fq(gnutls_protocol_get_version)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(158)150 2511 y Fq(gnutls_protocol_list)13 b Fa(:)18
b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)40 b Fp(159)150 2600 y Fq
(gnutls_protocol_set_priority)11 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)37 b Fp(159)150 2688 y Fq
(gnutls_psk_allocate_client_cr)q(eden)q(tials)25 b Fa(:)14
b(:)45 b Fp(159)150 2776 y Fq(gnutls_psk_allocate_server_cr)q(eden)q
(tials)25 b Fa(:)14 b(:)45 b Fp(159)150 2865 y Fq
(gnutls_psk_client_get_hint)16 b Fa(:)j(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(159)150 2953 y
Fq(gnutls_psk_free_client_creden)q(tial)q(s)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(160)150 3042 y Fq
(gnutls_psk_free_server_creden)q(tial)q(s)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(160)150 3130 y Fq
(gnutls_psk_netconf_derive_key)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g

(:g(:)g(:)g(:)h(:)f(:)34 b Fp(160)150 3219 y Fq
(gnutls_psk_server_get_username)q(e)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)49 b Fp(160)150 3307 y Fq
(gnutls_psk_set_client_credent)q(ials)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(161)150 3396 y Fq
(gnutls_psk_set_client_credent)q(ials)q(_func)q(ation)325
3483 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(160)150 3572
y Fq(gnutls_psk_set_params_funcio)q(n)28 b Fa(:)13 b(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)49 b Fp(161)150 3660 y Fq
(gnutls_psk_set_server_credent)q(ials)q(_file)25 b Fa(:)14
b(:)45 b Fp(161)150 3749 y Fq(gnutls_psk_set_server_credent)q(ials)q
(_func)q(ation)325 3836 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48
b Fp(162)150 3924 y Fq(gnutls_psk_set_server_credent)q(ials)q(_hint)25
b Fa(:)14 b(:)45 b Fp(162)150 4013 y Fq(gnutls_psk_set_server_dh_para)q
(ms)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46
b Fp(162)150 4101 y Fq(gnutls_psk_set_server_params_)q(func)q(ation)28
b Fa(:)13 b(:)g(:)48 b Fp(162)150 4190 y Fq
(gnutls_record_check_pending)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(163)150 4278 y
Fq(gnutls_record_disable_padding)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g
(:g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(163)150 4367 y Fq
(gnutls_record_get_direction)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(163)150 4455 y
Fq(gnutls_record_get_max_size)16 b Fa(:)j(i:)13 b(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(163)150 4544
y Fq(gnutls_record_recv)23 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
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b Fp(163)150 4632 y Fq(gnutls_record_send)23 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)g(:)45 b Fp(164)150 4721 y Fq
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(:g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(164)150 4809 y
Fq(gnutls_rehandshake)23 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)45
b Fp(165)150 4898 y Fq(gnutls_rsa_export_get_modulus)q(_bit)q(s)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(165)150
4986 y Fq(gnutls_rsa_export_get_pubkey)11 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37 b
Fp(165)150 5075 y Fq(gnutls_rsa_params_cpy)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:g(:)g(:)g(:)g(:)38 b Fp(166)150 5163 y Fq(gnutls_rsa_params_deinit)26
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)47 b Fp(166)150 5251 y Fq(gnutls_rsa_params_export_pkcs)q(1)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49

b Fp(166)150 5340 y Fq(gnutls_rsa_params_export_raw)11
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37
b Fp(166)2025 299 y Fq(gnutls_rsa_params_generate2)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(167)2025 387 y Fq(gnutls_rsa_params_import_pkcs1)29
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49
b Fp(167)2025 476 y Fq(gnutls_rsa_params_import_raw)11
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)37
b Fp(167)2025 564 y Fq(gnutls_rsa_params_init)8 b Fa(:)18
b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)35 b Fp(168)2025 653 y Fq(gnutls_server_name_get)8
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)35 b Fp(168)2025 741 y Fq
(gnutls_server_name_set)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35 b
Fp(168)2025 830 y Fq(gnutls_session_enable_compat)q(ility)q(_mod)q(e)
2200 917 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
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1006 y Fq(gnutls_session_get_client_rand)q(om)17 b Fa(:)i(:)13
b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(169)2025 1094 y Fq
(gnutls_session_get_data)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)50 b Fp(170)2025
1183 y Fq(gnutls_session_get_data2)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(169)2025
1271 y Fq(gnutls_session_get_id)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)38
b Fp(170)2025 1360 y Fq(gnutls_session_get_master_sec)q(et)17
b Fa(:)i(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(170)2025
1448 y Fq(gnutls_session_get_ptr)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)35
b Fp(171)2025 1537 y Fq(gnutls_session_get_server_rand)q(om)17
b Fa(:)i(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(171)2025
1625 y Fq(gnutls_session_is_resumed)18 b Fa(:)g(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)45
b Fp(171)2025 1714 y Fq(gnutls_session_set_data)28 b
Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
(:)g(:)g(:)50 b Fp(171)2025 1802 y Fq(gnutls_session_set_finished_fu)q
(nctio)q(n)7 b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(172)2025
1891 y Fq(gnutls_session_set_ptr)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)35
b Fp(172)2025 1979 y Fq(gnutls_set_default_export_prio)q(rity)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(172)2025
2068 y Fq(gnutls_set_default_priority)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(172)2025 2156 y Fq(gnutls_sign_algorithm_get_name)29
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49
b Fp(173)2025 2245 y Fq(gnutls_sign_callback_get)26 b

(:g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)40
b Fp(178)2025 4366 y Fq(gnutls_transport_get_ptr)26 b
Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
(:g(:)47 b Fp(179)2025 4455 y Fq(gnutls_transport_get_ptr2)18
b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
(:45 b Fp(179)2025 4543 y Fq(gnutls_transport_set_errno)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(179)2025 4632 y Fq(gnutls_transport_set_global_er)q(rno)15
b Fa(:)k(:)13 b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(180)2025
4720 y Fq(gnutls_transport_set_lowat)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42
b Fp(180)2025 4809 y Fq(gnutls_transport_set_ptr)26 b
Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
(:g(:)47 b Fp(180)2025 4897 y Fq(gnutls_transport_set_ptr2)18
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b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(181)2025
5074 y Fq(gnutls_transport_set_push_func)q(ation)13 b
Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(181)2025 5163
y Fq(gnutls_x509_crl_check_issuer)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(189)2025 5251 y Fq
(gnutls_x509_crl_deinit)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35 b
Fp(190)2025 5340 y Fq(gnutls_x509_crl_export)8 b Fa(:)18
b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)35 b Fp(190)p eop end
%%Page: 337 343
TeXDict begin 337 342 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(337)150 299 y Fq
(gnutls_x509_crl_get_authority)q(_key)q(_id)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(190)150 387 y Fq
(gnutls_x509_crl_get_crt_count)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
(:g(:)g(:)g(:)h(:)f(:)34 b Fp(190)150 476 y Fq
(gnutls_x509_crl_get_crt_seria)q(l)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
(:g(:)g(:)g(:)g(:)49 b Fp(191)150 564 y Fq(gnutls_x509_crl_get_dn_oid)
16 b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
(:42 b Fp(191)150 653 y Fq(gnutls_x509_crl_get_extension)q(_dat)q(a)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(191)150
741 y Fq(gnutls_x509_crl_get_extension)q(_inf)q(o)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(192)150
830 y Fq(gnutls_x509_crl_get_extension)q(_oid)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)41 b Fp(192)150 918 y Fq
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(:g(:)g(:)g(:)h(:)f(:)34 b Fp(193)150 1007 y Fq
(gnutls_x509_crl_get_issuer_dn)q(_by_)q(oid)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(192)150 1095 y Fq
(gnutls_x509_crl_get_next_upda)q(te)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
(:h(:)f(:)g(:)46 b Fp(193)150 1184 y Fq(gnutls_x509_crl_get_number)16

b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(193)150 1272 y Fq(gnutls_x509_crl_get_signature)9
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(194)150 1361 y Fq(gnutls_x509_crl_get_signature)q(_alg)q(orith)q
(m)325 1448 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(194)150
1536 y Fq(gnutls_x509_crl_get_this_upda)q(te)26 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(194)150 1625
y Fq(gnutls_x509_crl_get_version)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(194)150 1713 y Fq(gnutls_x509_crl_import)8 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)35 b Fp(194)150 1802 y Fq(gnutls_x509_crl_init)13
b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40 b Fp(195)150 1890 y
Fq(gnutls_x509_crl_print)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)38
b Fp(195)150 1979 y Fq(gnutls_x509_crl_set_authority)q(_key)q(_id)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(195)150 2067 y Fq
(gnutls_x509_crl_set_crt)28 b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)50 b Fp(196)150
2156 y Fq(gnutls_x509_crl_set_crt_seria)q(l)28 b Fa(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49 b Fp(195)150
2244 y Fq(gnutls_x509_crl_set_next_upda)q(te)26 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(196)150 2333
y Fq(gnutls_x509_crl_set_number)16 b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(196)150 2421
y Fq(gnutls_x509_crl_set_this_upda)q(te)26 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(196)150 2510
y Fq(gnutls_x509_crl_set_version)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(197)150 2598 y Fq(gnutls_x509_crl_sign)13 b Fa(:)18
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g(:)g(:)h(:)f(:)g(:)40 b Fp(197)150 2687 y Fq(gnutls_x509_crl_sign2)11
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(:)g(:)g(:)g(:)g(:)g(:)38 b Fp(197)150 2775 y Fq
(gnutls_x509_crl_verify)8 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)35 b Fp(197)150
2864 y Fq(gnutls_x509_crq_deinit)8 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)35
b Fp(198)150 2952 y Fq(gnutls_x509_crq_export)8 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)35 b Fp(198)150 3041 y Fq(gnutls_x509_crq_get_attribute)q
(_by_)q(oid)7 b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(198)150
3129 y Fq(gnutls_x509_crq_get_attribute)q(_dat)q(a)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(199)150
3218 y Fq(gnutls_x509_crq_get_attribute)q(_inf)q(o)12

b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(199)150
3306 y Fq(gnutls_x509_crq_get_basic_con)q(stra)q(ints)28
b Fa(:)13 b(:)g(:)48 b Fp(199)150 3395 y Fq
(gnutls_x509_crq_get_challenge)q(_pas)q(sword)25 b Fa(:)14
b(:)45 b Fp(200)150 3483 y Fq(gnutls_x509_crq_get_dn)8
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)35 b Fp(201)150 3572 y Fq
(gnutls_x509_crq_get_dn_by_oid)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(200)150 3660 y Fq
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(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(201)150 3749 y
Fq(gnutls_x509_crq_get_extension)q(_by_)q(oid)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(201)150 3837 y Fq
(gnutls_x509_crq_get_extension)q(_dat)q(a)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(202)150 3926 y Fq
(gnutls_x509_crq_get_extension)q(_inf)q(o)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(202)150 4014 y Fq
(gnutls_x509_crq_get_key_id)16 b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(203)150 4102 y
Fq(gnutls_x509_crq_get_key_purpo)q(se_o)q(id)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(203)150 4191 y Fq
(gnutls_x509_crq_get_key_rsa_r)q(aw)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)46 b Fp(203)150 4279 y Fq(gnutls_x509_crq_get_key_usage)
9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(204)150 4368 y Fq(gnutls_x509_crq_get_pk_algori)q(thm)18
b Fa(:)g(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)44 b Fp(204)150
4456 y Fq(gnutls_x509_crq_get_subject_a)q(lt_n)q(ame)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(204)150 4545 y Fq
(gnutls_x509_crq_get_subject_a)q(lt_o)q(thern)q(ame_)304
4632 y(oid)14 b Fa(:)g(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)41 b Fp(205)150 4721 y Fq
(gnutls_x509_crq_get_version)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(205)150 4809 y
Fq(gnutls_x509_crq_import)8 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)35 b Fp(206)150
4898 y Fq(gnutls_x509_crq_init)13 b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40
b Fp(206)150 4986 y Fq(gnutls_x509_crq_print)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)38 b Fp(206)150 5075 y Fq
(gnutls_x509_crq_set_attribute)q(_by_)q(oid)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(206)150 5163 y Fq
(gnutls_x509_crq_set_basic_con)q(stra)q(ints)28 b Fa(:)13
b(:)g(:)48 b Fp(207)150 5251 y Fq(gnutls_x509_crq_set_challenge)q(_pas)
q(sword)25 b Fa(:)14 b(:)45 b Fp(207)150 5340 y Fq
(gnutls_x509_crq_set_dn_by_oid)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(207)2025 299 y Fq

(gnutls_x509_crq_set_key)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)50 b Fp(208)2025
387 y Fq(gnutls_x509_crq_set_key_purpos)q(e_oid)10 b
Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(207)2025 476 y
Fq(gnutls_x509_crq_set_key_rsa_ra)q(w)25 b Fa(:)13 b(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)46 b Fp(208)2025 564 y Fq
(gnutls_x509_crq_set_key_usage)8 b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)34 b Fp(208)2025 653 y Fq
(gnutls_x509_crq_set_subject_al)q(t_nam)q(e)7 b Fa(:)19
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(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)40 b Fp(209)2025 830 y
Fq(gnutls_x509_crq_sign)13 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)h(:)f(:)40
b Fp(210)2025 918 y Fq(gnutls_x509_crq_sign2)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)38 b Fp(209)2025 1007 y Fq
(gnutls_x509 crt_check_hostname)29 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)49 b Fp(210)2025 1095 y Fq(gnutls_x509 crt_check_issuer)
11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)37
b Fp(210)2025 1184 y Fq(gnutls_x509 crt_check_revocati)q(on)17
b Fa(:)i(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(210)2025
1272 y Fq(gnutls_x509 crt_cpy_crl_dist_p)q(ooints)10 b
Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(211)2025 1361
y Fq(gnutls_x509 crt_deinit)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35
b Fp(211)2025 1449 y Fq(gnutls_x509 crt_export)8 b Fa(:)18
b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)35 b Fp(211)2025 1538 y Fq(gnutls_x509 crt_get_activation)q
(_time)10 b Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(211)2025
1626 y Fq(gnutls_x509 crt_get_authority_)q(key_i)q(d)7
b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(212)2025 1715 y
Fq(gnutls_x509 crt_get_basic_cons)q(train)q(ts)27 b Fa(:)14
b(:)f(:)48 b Fp(212)2025 1803 y Fq(gnutls_x509 crt_get_ca_status)8
b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(212)2025 1892 y Fq(gnutls_x509 crt_get_crl_dist_p)q(ooints)10
b Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(213)2025 1980
y Fq(gnutls_x509 crt_get_dn)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35
b Fp(214)2025 2069 y Fq(gnutls_x509 crt_get_dn_by_oid)8
b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(213)2025 2157 y Fq(gnutls_x509 crt_get_dn_oid)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(214)2025 2246 y Fq(gnutls_x509 crt_get_expiration)q(_time)10
b Fa(:)19 b(:)13 b(:)g(:)h(:)f(:)36 b Fp(214)2025 2334
y Fq(gnutls_x509 crt_get_extension_)q(by_oi)q(d)7 b Fa(:)19
b(:)13 b(:)g(:)g(:)34 b Fp(215)2025 2423 y Fq
(gnutls_x509 crt_get_extension_)q(data)13 b Fa(:)19 b(:)13

b(:)g(:)g(:)g(:)g(:)39 b Fp(215)2025 2511 y Fq
(gnutls_x509_crt_get_extension_)q(info)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)39 b Fp(215)2025 2600 y Fq
(gnutls_x509_crt_get_extension_)q(oid)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(216)2025 2688 y Fq
(gnutls_x509_crt_get_fingerprin)q(t)25 b Fa(:)13 b(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)h(:)46 b Fp(216)2025 2776 y Fq(gnutls_x509_crt_get_issuer)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(218)2025 2865 y Fq(gnutls_x509_crt_get_issuer_dn)8
b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(217)2025 2953 y Fq(gnutls_x509_crt_get_issuer_dn_)q(by_oi)q(d)7
b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(216)2025 3042 y
Fq(gnutls_x509_crt_get_issuer_dn_)q(oid)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(217)2025 3130 y Fq
(gnutls_x509_crt_get_key_id)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(218)2025 3219
y Fq(gnutls_x509_crt_get_key_purpos)q(e_oid)10 b Fa(:)19
b(:)13 b(:)g(:)h(:)f(:)36 b Fp(218)2025 3307 y Fq
(gnutls_x509_crt_get_key_usage)8 b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)h(:)34 b Fp(219)2025 3396 y Fq
(gnutls_x509_crt_get_pk_algorit)q(hm)17 b Fa(:)i(:)13
b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(219)2025 3484 y Fq
(gnutls_x509_crt_get_pk_dsa_raw)29 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)49 b Fp(219)2025 3573 y Fq
(gnutls_x509_crt_get_pk_rsa_raw)29 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)49 b Fp(220)2025 3661 y Fq(gnutls_x509_crt_get_proxy)18
b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)45 b Fp(220)2025 3750 y Fq(gnutls_x509_crt_get_raw_dn)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(220)2025 3838 y Fq(gnutls_x509_crt_get_raw_issuer)q(_dn)15
b Fa(:)k(:)13 b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(221)2025
3927 y Fq(gnutls_x509_crt_get_serial)15 b Fa(:)k(:)13
b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42
b Fp(221)2025 4015 y Fq(gnutls_x509_crt_get_signature)8
b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(221)2025 4104 y Fq(gnutls_x509_crt_get_signature_)q(algor)q(ithm)
2200 4191 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(221)2025
4279 y Fq(gnutls_x509_crt_get_subject)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(223)2025 4368 y Fq(gnutls_x509_crt_get_subject_al)q(t_nam)q(e)7
b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(222)2025 4456 y
Fq(gnutls_x509_crt_get_subject_al)q(t_nam)q(e2)27 b Fa(:)14
b(:)f(:)48 b Fp(222)2025 4545 y Fq(gnutls_x509_crt_get_subject_al)q
(t_oth)q(erna)q(me_)2178 4632 y(oid)14 b Fa(:)g(:)f(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)41

b Fp(223)2025 4721 y Fq(gnutls_x509_crt_get_subject_ke)q(y_id)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(223)2025
4809 y Fq(gnutls_x509_crt_get_verify_alg)q(orith)q(m)7
b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(224)2025 4898 y
Fq(gnutls_x509_crt_get_version)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)40 b Fp(224)2025 4986
y Fq(gnutls_x509_crt_import)8 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)35
b Fp(224)2025 5075 y Fq(gnutls_x509_crt_init)13 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)40 b Fp(224)2025 5163 y Fq
(gnutls_x509_crt_list_import)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)40 b Fp(225)2025 5251
y Fq(gnutls_x509_crt_list_verify)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)40
b Fp(225)2025 5340 y Fq(gnutls_x509_crt_print)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)38 b Fp(226)p eop end
%%Page: 338 344
TeXDict begin 338 343 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(338)150 299 y Fq
(gnutls_x509_crt_set_activatio)q(n_ti)q(me)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(226)150 390 y Fq
(gnutls_x509_crt_set_authority)q(_key)q(_id)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(226)150 481 y Fq
(gnutls_x509_crt_set_basic_con)q(stra)q(ints)28 b Fa(:)13
b(:)g(:)48 b Fp(226)150 572 y Fq(gnutls_x509_crt_set_ca_status)9
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(227)150 663 y Fq(gnutls_x509_crt_set_crl_dist_)q(poin)q(ts)10
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)36 b Fp(227)150 754 y Fq
(gnutls_x509_crt_set_crl_dist_)q(poin)q(ts2)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(227)150 844 y Fq(gnutls_x509_crt_set_crq)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)50 b Fp(228)150 935 y Fq(gnutls_x509_crt_set_crq_exten)q
(sion)q(s)12 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39
b Fp(227)150 1026 y Fq(gnutls_x509_crt_set_dn_by_oid)9
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34
b Fp(228)150 1117 y Fq(gnutls_x509_crt_set_expiratio)q(n_ti)q(me)10
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)36 b Fp(228)150 1208 y
Fq(gnutls_x509_crt_set_extension)q(_by_)q(oid)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(228)150 1299 y Fq
(gnutls_x509_crt_set_issuer_dn)q(_by_)q(oid)7 b Fa(:)19
b(:)13 b(:)g(:)h(:)33 b Fp(229)150 1390 y Fq(gnutls_x509_crt_set_key)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
(:)g(:)g(:)50 b Fp(230)150 1481 y Fq(gnutls_x509_crt_set_key_purpo)q
(se_o)q(id)10 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)36 b Fp(229)150
1572 y Fq(gnutls_x509_crt_set_key_usage)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(230)150

1663 y Fq(gnutls_x509_crt_set_proxy)18 b Fa(:)h(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)44
b Fp(230)150 1754 y Fq(gnutls_x509_crt_set_proxy_dn)11
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)37
b Fp(230)150 1845 y Fq(gnutls_x509_crt_set_serial)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(231)150 1936 y Fq(gnutls_x509_crt_set_subject_a)q(lt_n)q(ame)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(231)150 2026 y Fq
(gnutls_x509_crt_set_subject_a)q(lter)q(nativ)q(e_)304
2114 y(name)12 b Fa(:)h(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)38 b Fp(231)150 2205 y Fq
(gnutls_x509_crt_set_subject_k)q(ey_i)q(d)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(232)150 2296 y Fq
(gnutls_x509_crt_set_version)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(232)150 2386 y
Fq(gnutls_x509_crt_sign)13 b Fa(:)18 b(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40
b Fp(233)150 2477 y Fq(gnutls_x509_crt_sign2)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)38 b Fp(232)150 2568 y Fq(gnutls_x509_crt_verify)8
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)35 b Fp(233)150 2659 y Fq
(gnutls_x509_crt_verify_data)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(233)150 2750 y
Fq(gnutls_x509_crt_verify_hash)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)h(:)f(:)39 b Fp(233)150 2841
y Fq(gnutls_x509_dn_deinit)11 b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)38
b Fp(234)150 2932 y Fq(gnutls_x509_dn_export)11 b Fa(:)18
b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)38 b Fp(234)150 3023 y Fq(gnutls_x509_dn_get_rdn_ava)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(234)150 3114 y Fq(gnutls_x509_dn_import)11 b
Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)38 b Fp(235)150 3205 y Fq(gnutls_x509_dn_init)
16 b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)43 b Fp(235)150 3296 y
Fq(gnutls_x509_dn_oid_known)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(235)150
3387 y Fq(gnutls_x509_privkey_cpy)28 b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)50 b
Fp(235)150 3478 y Fq(gnutls_x509_privkey_deinit)16 b
Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42
b Fp(235)150 3568 y Fq(gnutls_x509_privkey_export)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(237)150 3659 y Fq(gnutls_x509_privkey_export_ds)q(a_ra)q(w)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(236)150

3750 y Fq(gnutls_x509_privkey_export_pk)q(cs8)18 b Fa(:)g(:)c(:)f(:)g
(:)g(:)g(:)g(:)g(:)44 b Fp(236)150 3841 y Fq
(gnutls_x509_privkey_export_rs)q(a_ra)q(w)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(236)150 3932 y Fq
(gnutls_x509_privkey_fix)28 b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)50 b Fp(237)150
4023 y Fq(gnutls_x509_privkey_generate)11 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37 b
Fp(237)150 4114 y Fq(gnutls_x509_privkey_get_key_i)q(d)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)49
b Fp(238)150 4205 y Fq(gnutls_x509_privkey_get_pk_al)q(gori)q(thm)7
b Fa(:)19 b(:)13 b(:)g(:)h(:)33 b Fp(238)150 4296 y Fq
(gnutls_x509_privkey_import)16 b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42 b Fp(239)150 4387 y
Fq(gnutls_x509_privkey_import_ds)q(a_ra)q(w)12 b Fa(:)19
b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(238)150 4478 y Fq
(gnutls_x509_privkey_import_pk)q(cs8)18 b Fa(:)g(:)c(:)f(:)g(:)g(:)g(:)
g(:)g(:)44 b Fp(239)150 4569 y Fq(gnutls_x509_privkey_import_rs)q(a_ra)
q(w)12 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(239)150
4660 y Fq(gnutls_x509_privkey_init)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(240)150
4751 y Fq(gnutls_x509_privkey_sign_data)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(240)150
4841 y Fq(gnutls_x509_privkey_sign_hash)9 b Fa(:)18 b(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(240)150
4932 y Fq(gnutls_x509_privkey_verify_da)q(ta)26 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(241)150 5023
y Fq(gnutls_x509_rdn_get)16 b Fa(:)h(:)d(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)43
b Fp(242)150 5114 y Fq(gnutls_x509_rdn_get_by_oid)16
b Fa(:)i(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
42 b Fp(241)150 5205 y Fq(gnutls_x509_rdn_get_oid)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)50 b Fp(241)2025 299 y FA(H)2025 416 y Fq(handshake)7
b Fa(:)15 b(:)e(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)34 b Fp(291)2025 504 y Fq(handshake-description->string)8
b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(293)2025 760 y FA(I)2025 877 y Fq(import-openpgp-certificate)15
b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
42 b Fp(294)2025 965 y Fq(import-openpgp-keyring)8 b
Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)35 b Fp(294)2025 1053 y Fq
(import-openpgp-private-key)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(294)2025 1141
y Fq(import-x509-certificate)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)50 b Fp(287)2025
1229 y Fq(import-x509-private-key)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)

g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)50 b
Fp(287)2025 1484 y FA(K)2025 1602 y Fq(key-usage->string)25
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)48 b Fp(292)2025
1690 y Fq(kx->string)24 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)49 b Fp(293)2025 1945 y FA(M)2025
2063 y Fq(mac->string)22 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)46 b Fp(293)2025 2151 y Fq
(make-anonymous-client-credential)q(als)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(289)2025 2239 y Fq
(make-anonymous-server-credential)q(als)15 b Fa(:)k(:)13
b(:)g(:)g(:)g(:)h(:)f(:)41 b Fp(289)2025 2327 y Fq
(make-certificate-credentials)11 b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)37 b Fp(288)2025 2415 y Fq(make-dh-parameters)
22 b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)45 b Fp(289)2025
2502 y Fq(make-psk-client-credentials)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(287)2025 2590 y Fq(make-psk-server-credentials)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(287)2025 2678 y Fq(make-rsa-parameters)24 b Fa(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)47 b Fp(280,)27 b(289)2025 2766 y Fq(make-session)17
b Fa(:)e(:)f(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)44
b Fp(291)2025 3003 y FA(O)2025 3120 y Fq(openpgp-certificate-algorithm)
8 b Fa(:)19 b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)34
b Fp(294)2025 3208 y Fq(openpgp-certificate-fingerprint)q(t)25
b Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)46 b Fp(294)2025
3296 y Fq(openpgp-certificate-fingerprint)q(t!)17 b Fa(:)j(:)13
b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(294)2025 3384 y Fq
(openpgp-certificate-format->st)q(ring)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)g(:)39 b Fp(294)2025 3472 y Fq(openpgp-certificate-id)8
b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)35 b Fp(294)2025 3560 y Fq
(openpgp-certificate-id!)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)50 b Fp(294)2025
3648 y Fq(openpgp-certificate-name)26 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(294)2025
3736 y Fq(openpgp-certificate-names)18 b Fa(:)g(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)45
b Fp(294)2025 3824 y Fq(openpgp-certificate-usage)18
b Fa(:)g(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)45 b Fp(294)2025 3912 y Fq(openpgp-certificate-version)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)40
b Fp(294)2025 4000 y Fq(openpgp-certificate?)13 b Fa(:)18

b(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)40 b Fp(294)2025 4088 y Fq
(openpgp-keyring-contains-key-i)q(d?)17 b Fa(:)i(:)13
b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(293)2025 4176 y Fq
(openpgp-keyring?)7 b Fa(:)16 b(:)d(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)h(:)33
b Fp(294)2025 4264 y Fq(openpgp-private-key?)13 b Fa(:)18
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g(:)g(:)g(:)h(:)f(:)40 b Fp(294)2025 4519 y FA(P)2025
4637 y Fq(params->string)12 b Fa(:)k(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)39 b Fp(293)2025 4724 y Fq(peer-certificate-status)28
b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)50 b Fp(287)2025 4812 y Fq(pk-algorithm->string)13
b Fa(:)18 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)h(:)f(:)40 b Fp(292)2025 4900
y Fq(pkcs1-export-rsa-parameters)17 b Fa(:)i(:)13 b(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)44 b Fp(280,)27 b(288)2025 4988 y Fq
(pkcs1-import-rsa-parameters)13 b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)40 b Fp(289)2025 5076
y Fq(pkcs3-export-dh-parameters)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(289)2025 5164
y Fq(pkcs3-import-dh-parameters)15 b Fa(:)k(:)13 b(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42 b Fp(289)2025 5252
y Fq(pkcs8-import-x509-private-key)8 b Fa(:)19 b(:)13
b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)34 b Fp(287)2025
5340 y Fq(protocol->string)7 b Fa(:)16 b(:)d(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)h(:)33 b Fp(292)p eop end
%%Page: 339 345
TeXDict begin 339 344 bop 150 -116 a FB(F)-8 b(unction)31
b(and)f(Data)i(Index)2458 b(339)150 299 y Fq(psk-client-credentials?)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)50 b Fp(291)150 386 y Fq(psk-key-format->string)8
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)35 b Fp(292)150 474 y Fq(psk-server-credentials?)28
b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)50 b Fp(291)150 726 y FA(R)150 842 y Fq(record-receive!)13
b Fa(:)k(:)c(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)40 b Fp(281,)27 b(289)150
930 y Fq(record-send)7 b Fa(:)15 b(:)e(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)33 b Fp(281,)27 b(289)150 1017 y Fq(rehandshake)22
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)46
b Fp(291)150 1104 y Fq(rsa-parameters?)9 b Fa(:)17 b(:)c(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)36 b Fp(292)150 1357 y FA(S)150

1473 y Fq(server-session-psk-username)13 b Fa(:)19 b(:)13
b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(287)150 1560 y Fq(session-authentication-type)13
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)39
b Fp(290)150 1648 y Fq(session-certificate-type)26 b
Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)47 b Fp(291)150 1735 y Fq(session-cipher)16 b
Fa(:)g(:)d(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)43 b Fp(279,)27 b(291)150
1822 y Fq(session-client-authentication)q(-typ)q(e)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(290)150
1910 y Fq(session-compression-method)16 b Fa(:)i(:)13
b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)42
b Fp(291)150 1997 y Fq(session-kx)24 b Fa(:)13 b(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(291)150
2084 y Fq(session-mac)22 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)46 b Fp(291)150 2172 y Fq
(session-our-certificate-chain)9 b Fa(:)18 b(:)13 b(:)h(:)f(:)g(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)34 b Fp(290)150 2259 y Fq
(session-peer-certificate-chai)q(n)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)49 b Fp(290)150 2346 y Fq(session-protocol)7
b Fa(:)16 b(:)d(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)33 b Fp(291)150
2434 y Fq(session-record-port)25 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(281,)27
b(289)150 2521 y Fq(session-server-authentication)q(-typ)q(e)12
b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(290)150
2608 y Fq(session?)10 b Fa(:)15 b(:)e(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)37 b Fp(292)150 2696
y Fq(set-anonymous-server-dh-param)q(eter)q(s!)10 b Fa(:)18
b(:)c(:)f(:)g(:)g(:)36 b Fp(289)150 2783 y Fq
(set-certificate-credentials-d)q(h-pa)q(ramet)q(ers!)325
2870 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(288)150 2957
y Fq(set-certificate-credentials-o)q(penp)q(gp-ke)q(ys!)325
3045 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(293)150 3132
y Fq(set-certificate-credentials-r)q(sa-e)q(xport)q(-)304
3219 y(parameters!)11 b Fa(:)k(:)e(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
37 b Fp(288)150 3306 y Fq(set-certificate-credentials-v)q(erif)q(y-fla)
q(gs!)325 3394 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)

g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(287)150
3481 y Fq(set-certificate-credentials-v)q(erif)q(y-lim)q(its!)325
3568 y Fa(:)13 b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
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(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(287)150 3655
y Fq(set-certificate-credentials-x)q(509-)q(crl-d)q(ata!)325
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(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(288)150 3830
y Fq(set-certificate-credentials-x)q(509-)q(crl-f)q(ile!)325
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(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)48 b Fp(288)150 4005
y Fq(set-certificate-credentials-x)q(509-)q(key-d)q(ata!)325
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b Fa(:)14 b(:)45 b Fp(288)2025 299 y Fq(set-certificate-credentials-x5)
q(09-tr)q(ust-)2178 386 y Fa(:)15 b(:)e(:)g(:)g(:)g(:)g(:)g(:)
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561 y(file!)9 b Fa(:)15 b(:)e(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
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b Fa(:)k(:)d(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
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b Fp(286)2025 737 y Fq(set-log-procedure!)22 b Fa(:)14
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b(:)g(:)h(:)f(:)g(:)g(:)g(:)44 b Fp(287)2025 1000 y Fq
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h(:)f(:)g(:)g(:)g(:)g(:)g(:)49 b Fp(290)2025 1175 y Fq
(set-session-certificate-type-p)q(riori)q(ty!)25 b Fa(:)13
b(:)46 b Fp(290)2025 1262 y Fq(set-session-cipher-priority!)11
b Fa(:)18 b(:)c(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)37
b Fp(290)2025 1350 y Fq(set-session-compression-method)q(-prio)q(rity)q
(!)2200 1437 y Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)

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(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)47 b Fp(289)2025
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b Fa(:)19 b(:)13 b(:)g(:)g(:)34 b Fp(290)2025 1701 y
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b Fp(290)2025 2052 y Fq(set-session-protocol-priority!)29
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)49
b Fp(290)2025 2139 y Fq(set-session-transport-fd!)27
b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49
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g(:)h(:)f(:)35 b Fp(292)2025 2403 y Fq(srp-client-credentials?)28
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(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)43 b Fp(287)2025 3038
y Fq(x509-certificate-dn-oid)28 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)50 b Fp(286)2025
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b(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)46 b Fp(292)2025
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b(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)42
b Fp(287)2025 3301 y Fq(x509-certificate-issuer-dn-oid)29
b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)49
b Fp(286)2025 3389 y Fq(x509-certificate-key-id)28 b
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b Fa(:)19 b(:)13 b(:)g(:)g(:)g(:)g(:)39 b Fp(286)2025
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(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)48 b Fp(291)2025 4354
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Fa(:)14 b(:)f(:)48 b Fp(292)p eop end
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756 y Fp(Alert)26 b(proto)r(col)17 b Fa(:)d(:)f(:)h(:)f(:)g(:)g(:)g
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b(authen)n(tication)7 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
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g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)43
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b Fp(7)150 1660 y(Certi\014cate)27 b(authen)n(tication)12
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b Fp(26)150 1837 y(certto)r(ol)22 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g
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g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)47
b Fp(102)150 1925 y(Ciphersuites)11 b Fa(:)j(:)f(:)g(:)g(:)g(:)g(:)g
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)37 b Fp(275)150 2013
y(Clien)n(t)26 b(Certi\014cate)h(authen)n(tication)17
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b Fp(2)150 3064 y FA(E)150 3182 y Fp(en)n(umerate)10
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h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)43 b Fp(281)150 4703
y Fo(Gn)n(uTLS-extra)27 b Fp(functions)16 b Fa(:)e(:)f(:)g(:)g(:)g(:)g(:)
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b Fp(242)150 4791 y(gn)n(utls-serv)19 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)h
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4879 y(GPL,)26 b(GNU)f(General)i(Public)f(License)21

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b Fp(318)150 5134 y FA(H)150 5252 y Fp(Hac)n(king)18
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h(:)f(:)g(:)g(:)44 b Fp(280)2025 727 y(HTTPS)26 b(serv)n(er)9
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(:)43 b Fp(262)2025 1175 y(Installation)14 b Fa(:)g(:)f(:)g(:)h(:)f(:)g(:)
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g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)37 b Fp(295)2025
1504 y FA(K)2025 1623 y Fp(k)n(ey)24 b(sizes)7 b Fa(:)15
b(:)e(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)34 b Fp(14)2025 1711 y(Keying)25 b(Material)j(Exp)r(orters)
23 b Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
(:)g(:)g(:)g(:)50 b Fp(101)2025 1968 y FA(L)2025 2087
y Fp(LGPL,)26 b(GNU)f(Lesser)i(General)f(Public)g(License)17
b Fa(:)d(:)f(:)44 b Fp(310)2025 2176 y(License,)26 b(GNU)f(GPL)11
b Fa(:)j(:)f(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)38 b Fp(318)2025
2264 y(License,)26 b(GNU)f(LGPL)d Fa(:)13 b(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)48
b Fp(310)2025 2521 y FA(M)2025 2640 y Fp(Maxim)n(um)26
b(fragment)n(t)g(length)10 b Fa(:)j(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)36 b Fp(13)2025
2897 y FA(N)2025 3016 y Fp(Netconf)20 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)
(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)47
b Fp(108)2025 3257 y FA(O)2025 3376 y Fp(Opaque)25 b(PRF)g(Input)11
b Fa(:)g(:)j(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)37 b Fp(101)2025
3464 y Fo(Op)r(enPGP)26 b Fp(functions)13 b Fa(:)h(:)f(:)g(:)g(:)g(:)h(:)
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)40 b Fp(242)2025 3553 y Fo(Op)r(enPGP)26
b Fp(Keys)7 b Fa(:)13 b(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)33
b Fp(17,)27 b(26)2025 3641 y Fo(Op)r(enPGP)f Fp(Serv)n(er)12
b Fa(:)h(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)

g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)38
b Fp(80)2025 3730 y(Op)r(enSSL)9 b Fa(:)j(:)h(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)36 b Fp(100)2025
3987 y FA(P)2025 4106 y Fp(PCT)20 b Fa(:)13 b(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)46
b Fp(15)2025 4195 y Fo(PK)n(CS)25 b Fp(#10)7 b Fa(:)15
b(:)e(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)34 b Fp(26)2025 4283 y Fo(PK)n(CS)25 b Fp(#12)7 b
Fa(:)15 b(:)e(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)34 b Fp(26)2025 4372 y Fo(PSK)25 b Fp(authen)n(tication)14
b Fa(:)f(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)40 b Fp(20)2025
4461 y(PSK)25 b(lien)n(t)20 b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)47 b Fp(108)2025 4549
y(PSK)25 b(serv)n(er)12 b Fa(:)h(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)
g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g
(:)g(:)g(:)g(:)h(:)f(:)g(:)39 b Fp(113)2025 4638 y(pskto)r(ol)11
b Fa(:)j(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)38 b Fp(113)2025 4895 y FA(R)2025
5014 y Fp(Record)25 b(padding)6 b Fa(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)g(:)g(:)g(:)g(:)33 b Fp(15)2025 5102 y(Record)25
b(proto)r(col)f Fa(:)13 b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)
f(:)g(:)49 b Fp(9)2025 5191 y(Rep)r(orting)26 b(Bugs)10
b Fa(:)j(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)37
b Fp(3)2025 5280 y(Resuming)25 b(sessions)16 b Fa(:)f(:)e(:)g(:)g(:)g
(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)
g(:)g(:)g(:)g(:)g(:)h(:)42 b Fp(13)p eop end
%%Page: 341 347
TeXDict begin 341 346 bop 150 -116 a FB(Concept)31 b(Index)2882
b(341)150 299 y FA(S)150 426 y Fp(Serv)n(er)25 b(name)h(indication)c
Fa(:)13 b(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)48 b Fp(14)150 519 y(SRFI-4)12
b Fa(:)g(:)h(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f
(:)g(:)g(:)g(:)g(:)39 b Fp(280)150 611 y Fo(SRP)26 b
Fp(authen)n(tication)15 b Fa(:)e(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)
h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)41
b Fp(19)150 704 y(srpto)r(ol)16 b Fa(:)e(:)f(:)h(:)f(:)g(:)g(:)g(:)g(:)g
(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f

(:g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)43
b Fp(113)150 797 y(SSL)25 b(2)19 b Fa(:)14 b(:)f(:)g(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)h(:)f
(:g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)45
b Fp(15)150 890 y(Symmetric)25 b(encryption)g(algorithms)17
b Fa(:)e(:)e(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)43
b Fp(10)150 1168 y FA(T)150 1295 y Fp(TLS)26 b(Extensions)11
b Fa(:)i(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)
g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)38 b Fp(13,)26
b(14)2025 299 y Fo(TLS)g Fp(Inner)e(Application)i(\()p
Fo(TLS/IA)p Fp(\)h(functions)21 b Fa(:)13 b(:)h(:)f(:)48
b Fp(262)2025 386 y(TLS)25 b(La)n(y)n(ers)11 b Fa(:)j(:)f(:)g(:)g(:)g
(:g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)
g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)38
b Fp(8)2025 474 y(T)-6 b(ransp)r(ort)26 b(proto)r(col)7
b Fa(:)15 b(:)e(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g
(:g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)35
b Fp(9)2025 724 y FA(V)2025 841 y Fp(V)-6 b(erifying)25
b(cert\014cate)i(paths)9 b Fa(:)j(:)h(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h
(:f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)35 b Fp(25)2025
1091 y FA(X)2025 1208 y Fo(X.509)26 b Fp(cert\014cates)13
b Fa(:)h(:)f(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)
g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)g(:)40 b Fp(17,)27
b(23)2025 1295 y Fo(X.509)f Fp(F)-6 b(unctions)21 b Fa(:)13
b(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)g(:)g(:)g(:)g
(:g(:)g(:)h(:)f(:)g(:)g(:)g(:)g(:)g(:)h(:)f(:)48 b Fp(181)p
eop end
%%Trailer

userdict /end-hook known{end-hook}if
%%EOF

This is gnutls.info, produced by makeinfo version 4.13 from gnutls.texi.

This manual is last updated 2 June 2009 for version 2.8.5 of GNU TLS.

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INFO-DIR-SECTION Software libraries

START-INFO-DIR-ENTRY

* GnuTLS: (gnutls). GNU Transport Layer Security Library.

END-INFO-DIR-ENTRY

INFO-DIR-SECTION System Administration

START-INFO-DIR-ENTRY

- * certtool: (gnutls)Invoking certtool. Manipulate certificates and keys.
- * gnutls-serv: (gnutls)Invoking gnutls-serv. GNU TLS test server.
- * gnutls-cli: (gnutls)Invoking gnutls-cli. GNU TLS test client.
- * gnutls-cli-debug: (gnutls)Invoking gnutls-cli-debug. GNU TLS debug client.
- * psktool: (gnutls)Invoking psktool. Simple TLS-Pre-Shared-Keys manager.
- * srptool: (gnutls)Invoking srptool. Simple SRP password tool.

END-INFO-DIR-ENTRY

File: gnutls.info, Node: X.509 certificate functions, Next: GnuTLS-extra functions, Prev: Core functions, Up: Function reference

9.2 X.509 Certificate Functions

=====

The following functions are to be used for X.509 certificate handling.
Their prototypes lie in `gnutls/x509.h'.

gnutls_pkcs12_bag_decrypt

-- Function: int gnutls_pkcs12_bag_decrypt (gnutls_pkcs12_bag_t BAG,
const char * PASS)

BAG: The bag

PASS: The password used for encryption, must be ASCII.

This function will decrypt the given encrypted bag and return 0 on success.

Returns: On success, `GNUTLS_E_SUCCESS' (zero) is returned, otherwise an error code is returned.

gnutls_pkcs12_bag_deinit

-- Function: void gnutls_pkcs12_bag_deinit (gnutls_pkcs12_bag_t BAG)

BAG: The structure to be initialized

This function will deinitialize a PKCS12 Bag structure.

gnutls_pkcs12_bag_encrypt

-- Function: int gnutls_pkcs12_bag_encrypt (gnutls_pkcs12_bag_t BAG,
const char * PASS, unsigned int FLAGS)

BAG: The bag

PASS: The password used for encryption, must be ASCII

FLAGS: should be one of `gnutls_pkcs_encrypt_flags_t' elements
bitwise or'd

This function will encrypt the given bag.

Returns: On success, `GNUTLS_E_SUCCESS' (zero) is returned,
otherwise an error code is returned.

gnutls_pkcs12_bag_get_count

-- Function: int gnutls_pkcs12_bag_get_count (gnutls_pkcs12_bag_t BAG)

BAG: The bag

This function will return the number of the elements withing the
bag.

Returns: Number of elements in bag, or an negative error code on
error.

gnutls_pkcs12_bag_get_data

-- Function: int gnutls_pkcs12_bag_get_data (gnutls_pkcs12_bag_t BAG,
int INDX, gnutls_datum_t * DATA)

BAG: The bag

INDX: The element of the bag to get the data from

DATA: where the bag's data will be. Should be treated as constant.

This function will return the bag's data. The data is a constant
that is stored into the bag. Should not be accessed after the bag
is deleted.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.and a negative error code on error.

gnutls_pkcs12_bag_get_friendly_name

-- Function: int gnutls_pkcs12_bag_get_friendly_name

(gnutls_pkcs12_bag_t BAG, int INDX, char ** NAME)

BAG: The bag

INDX: The bag's element to add the id

NAME: will hold a pointer to the name (to be treated as const)

This function will return the friendly name, of the specified bag element. The key ID is usually used to distinguish the local private key and the certificate pair.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. or a negative value on error.

gnutls_pkcs12_bag_get_key_id

-- Function: int gnutls_pkcs12_bag_get_key_id (gnutls_pkcs12_bag_t BAG, int INDX, gnutls_datum_t * ID)

BAG: The bag

INDX: The bag's element to add the id

ID: where the ID will be copied (to be treated as const)

This function will return the key ID, of the specified bag element. The key ID is usually used to distinguish the local private key and the certificate pair.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. or a negative value on error.

gnutls_pkcs12_bag_get_type

-- Function: gnutls_pkcs12_bag_type_t gnutls_pkcs12_bag_get_type (gnutls_pkcs12_bag_t BAG, int INDX)

BAG: The bag

INDX: The element of the bag to get the type

This function will return the bag's type.

Returns: One of the `gnutls_pkcs12_bag_type_t` enumerations.

gnutls_pkcs12_bag_init

-- Function: int gnutls_pkcs12_bag_init (gnutls_pkcs12_bag_t * BAG)

BAG: The structure to be initialized

This function will initialize a PKCS12 bag structure. PKCS12 Bags usually contain private keys, lists of X.509 Certificates and X.509 Certificate revocation lists.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs12_bag_set_crl

-- Function: int gnutls_pkcs12_bag_set_crl (gnutls_pkcs12_bag_t BAG,
gnutls_x509_crl_t CRL)

BAG: The bag

CRL: the CRL to be copied.

This function will insert the given CRL into the bag. This is just a wrapper over `gnutls_pkcs12_bag_set_data()`.

Returns: the index of the added bag on success, or a negative value on failure.

gnutls_pkcs12_bag_set_crt

-- Function: int gnutls_pkcs12_bag_set_crt (gnutls_pkcs12_bag_t BAG,
gnutls_x509_crt_t CRT)

BAG: The bag

CRT: the certificate to be copied.

This function will insert the given certificate into the bag. This is just a wrapper over `gnutls_pkcs12_bag_set_data()`.

Returns: the index of the added bag on success, or a negative value on failure.

gnutls_pkcs12_bag_set_data

-- Function: int gnutls_pkcs12_bag_set_data (gnutls_pkcs12_bag_t BAG,
gnutls_pkcs12_bag_type_t TYPE, const gnutls_datum_t * DATA)

BAG: The bag

TYPE: The data's type

DATA: the data to be copied.

This function will insert the given data of the given type into the bag.

Returns: the index of the added bag on success, or a negative value on error.

gnutls_pkcs12_bag_set_friendly_name

-- Function: int gnutls_pkcs12_bag_set_friendly_name
(gnutls_pkcs12_bag_t BAG, int INDX, const char * NAME)
BAG: The bag

INDX: The bag's element to add the id

NAME: the name

This function will add the given key friendly name, to the specified, by the index, bag element. The name will be encoded as a 'Friendly name' bag attribute, which is usually used to set a user name to the local private key and the certificate pair.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. or a negative value on error.

gnutls_pkcs12_bag_set_key_id

-- Function: int gnutls_pkcs12_bag_set_key_id (gnutls_pkcs12_bag_t
BAG, int INDX, const gnutls_datum_t * ID)
BAG: The bag

INDX: The bag's element to add the id

ID: the ID

This function will add the given key ID, to the specified, by the index, bag element. The key ID will be encoded as a 'Local key identifier' bag attribute, which is usually used to distinguish the local private key and the certificate pair.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. or a negative value on error.

gnutls_pkcs12_deinit

-- Function: void gnutls_pkcs12_deinit (gnutls_pkcs12_t PKCS12)
PKCS12: The structure to be initialized

This function will deinitialize a PKCS12 structure.

gnutls_pkcs12_export

-- Function: int gnutls_pkcs12_export (gnutls_pkcs12_t PKCS12,
gnutls_x509_crt_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)
PKCS12: Holds the pkcs12 structure

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a structure PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the pkcs12 structure to DER or PEM format.

If the buffer provided is not long enough to hold the output, then *output_data_size will be updated and GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN PKCS12".

Return value: In case of failure a negative value will be returned, and 0 on success.

gnutls_pkcs12_generate_mac

-- Function: int gnutls_pkcs12_generate_mac (gnutls_pkcs12_t PKCS12,
const char * PASS)
PKCS12: should contain a gnutls_pkcs12_t structure

PASS: The password for the MAC

This function will generate a MAC for the PKCS12 structure.

Returns: On success, 'GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_pkcs12_get_bag

-- Function: int gnutls_pkcs12_get_bag (gnutls_pkcs12_t PKCS12, int
INDX, gnutls_pkcs12_bag_t BAG)

PKCS12: should contain a gnutls_pkcs12_t structure

INDX: contains the index of the bag to extract

BAG: An initialized bag, where the contents of the bag will be
copied

This function will return a Bag from the PKCS12 structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

After the last Bag has been read

GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE will be returned.

gnutls_pkcs12_import

-- Function: int gnutls_pkcs12_import (gnutls_pkcs12_t PKCS12, const
gnutls_datum_t * DATA, gnutls_x509_cert_fmt_t FORMAT, unsigned
int FLAGS)

PKCS12: The structure to store the parsed PKCS12.

DATA: The DER or PEM encoded PKCS12.

FORMAT: One of DER or PEM

FLAGS: an ORed sequence of gnutls_privkey_pkcs8_flags

This function will convert the given DER or PEM encoded PKCS12 to
the native gnutls_pkcs12_t format. The output will be stored in
'pkcs12'.

If the PKCS12 is PEM encoded it should have a header of "PKCS12".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_pkcs12_init

-- Function: int gnutls_pkcs12_init (gnutls_pkcs12_t * PKCS12)

PKCS12: The structure to be initialized

This function will initialize a PKCS12 structure. PKCS12 structures usually contain lists of X.509 Certificates and X.509 Certificate revocation lists.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs12_set_bag

-- Function: int gnutls_pkcs12_set_bag (gnutls_pkcs12_t PKCS12,
gnutls_pkcs12_bag_t BAG)
PKCS12: should contain a gnutls_pkcs12_t structure

BAG: An initialized bag

This function will insert a Bag into the PKCS12 structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs12_verify_mac

-- Function: int gnutls_pkcs12_verify_mac (gnutls_pkcs12_t PKCS12,
const char * PASS)
PKCS12: should contain a gnutls_pkcs12_t structure

PASS: The password for the MAC

This function will verify the MAC for the PKCS12 structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs7_deinit

-- Function: void gnutls_pkcs7_deinit (gnutls_pkcs7_t PKCS7)
PKCS7: The structure to be initialized

This function will deinitialize a PKCS7 structure.

gnutls_pkcs7_delete_crl

-- Function: int gnutls_pkcs7_delete_crl (gnutls_pkcs7_t PKCS7, int
INDX)

PKCS7: should contain a `gnutls_pkcs7_t` structure

INDX: the index of the crl to delete

This function will delete a crl from a PKCS7 or RFC2630 crl set.
Index starts from 0. Returns 0 on success.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_pkcs7_delete_crt

-- Function: int gnutls_pkcs7_delete_cert (gnutls_pkcs7_t PKCS7, int
INDX)

PKCS7: should contain a gnutls_pkcs7_t structure

INDX: the index of the certificate to delete

This function will delete a certificate from a PKCS7 or RFC2630
certificate set. Index starts from 0. Returns 0 on success.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_pkcs7_export

-- Function: int gnutls_pkcs7_export (gnutls_pkcs7_t PKCS7,
gnutls_x509_crt_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)

PKCS7: Holds the pkcs7 structure

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a structure PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be
replaced by the actual size of parameters)

This function will export the pkcs7 structure to DER or PEM format.

If the buffer provided is not long enough to hold the output, then

*`output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER`
will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN PKCS7".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs7_get_crl_count

-- Function: int gnutls_pkcs7_get_crl_count (gnutls_pkcs7_t PKCS7)
PKCS7: should contain a gnutls_pkcs7_t structure

This function will return the number of certificates in the PKCS7 or RFC2630 crl set.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs7_get_crl_raw

-- Function: int gnutls_pkcs7_get_crl_raw (gnutls_pkcs7_t PKCS7, int
INDX, void * CRL, size_t * CRL_SIZE)
PKCS7: should contain a `gnutls_pkcs7_t` structure

INDX: contains the index of the crl to extract

CRL: the contents of the crl will be copied there (may be null)

CRL_SIZE: should hold the size of the crl

This function will return a crl of the PKCS7 or RFC2630 crl set.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. If the provided buffer is not long enough, then `crl_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` is returned. After the last crl has been read `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

gnutls_pkcs7_get_crt_count

-- Function: int gnutls_pkcs7_get_crt_count (gnutls_pkcs7_t PKCS7)
PKCS7: should contain a `gnutls_pkcs7_t` structure

This function will return the number of certificates in the PKCS7 or RFC2630 certificate set.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs7_get_cert_raw

-- Function: int gnutls_pkcs7_get_cert_raw (gnutls_pkcs7_t PKCS7, int
INDX, void * CERTIFICATE, size_t * CERTIFICATE_SIZE)
PKCS7: should contain a gnutls_pkcs7_t structure

INDX: contains the index of the certificate to extract

CERTIFICATE: the contents of the certificate will be copied there
(may be null)

CERTIFICATE_SIZE: should hold the size of the certificate

This function will return a certificate of the PKCS7 or RFC2630
certificate set.

After the last certificate has been read

`GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value. If the provided buffer is not long enough,
then `certificate_size` is updated and
`GNUTLS_E_SHORT_MEMORY_BUFFER` is returned.

gnutls_pkcs7_import

-- Function: int gnutls_pkcs7_import (gnutls_pkcs7_t PKCS7, const
gnutls_datum_t * DATA, gnutls_x509_cert_fmt_t FORMAT)
PKCS7: The structure to store the parsed PKCS7.

DATA: The DER or PEM encoded PKCS7.

FORMAT: One of DER or PEM

This function will convert the given DER or PEM encoded PKCS7 to
the native `gnutls_pkcs7_t` format. The output will be stored in
'pkcs7'.

If the PKCS7 is PEM encoded it should have a header of "PKCS7".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_pkcs7_init

-- Function: int gnutls_pkcs7_init (gnutls_pkcs7_t * PKCS7)
PKCS7: The structure to be initialized

This function will initialize a PKCS7 structure. PKCS7 structures usually contain lists of X.509 Certificates and X.509 Certificate revocation lists.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_pkcs7_set_crl_raw

-- Function: int gnutls_pkcs7_set_crl_raw (gnutls_pkcs7_t PKCS7, const
gnutls_datum_t * CRL)
PKCS7: should contain a `gnutls_pkcs7_t' structure

CRL: the DER encoded crl to be added

This function will add a crl to the PKCS7 or RFC2630 crl set.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_pkcs7_set_crl

-- Function: int gnutls_pkcs7_set_crl (gnutls_pkcs7_t PKCS7,
gnutls_x509_crl_t CRL)
PKCS7: should contain a `gnutls_pkcs7_t' structure

CRL: the DER encoded crl to be added

This function will add a parsed CRL to the PKCS7 or RFC2630 crl set.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_pkcs7_set_cert_raw

-- Function: int gnutls_pkcs7_set_cert_raw (gnutls_pkcs7_t PKCS7, const
gnutls_datum_t * CRT)
PKCS7: should contain a `gnutls_pkcs7_t' structure

CRT: the DER encoded certificate to be added

This function will add a certificate to the PKCS7 or RFC2630 certificate set.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_pkcs7_set_cert

-- Function: int gnutls_pkcs7_set_cert (gnutls_pkcs7_t PKCS7,
gnutls_x509_cert_t CRT)

PKCS7: should contain a `gnutls_pkcs7_t` structure

CRT: the certificate to be copied.

This function will add a parsed certificate to the PKCS7 or RFC2630 certificate set. This is a wrapper function over `gnutls_pkcs7_set_cert_raw()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_check_issuer

-- Function: int gnutls_x509_crl_check_issuer (gnutls_x509_crl_t CERT,
gnutls_x509_cert_t ISSUER)

ISSUER: is the certificate of a possible issuer

This function will check if the given CRL was issued by the given issuer certificate. It will return true (1) if the given CRL was issued by the given issuer, and false (0) if not.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_deinit

-- Function: void gnutls_x509_crl_deinit (gnutls_x509_crl_t CRL)

CRL: The structure to be initialized

This function will deinitialize a CRL structure.

gnutls_x509_crl_export

-- Function: int gnutls_x509_crl_export (gnutls_x509_crl_t CRL,
gnutls_x509_crt_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)

CRL: Holds the revocation list

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a private key PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the revocation list to DER or PEM format.

If the buffer provided is not long enough to hold the output, then GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN X509 CRL".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value. and a negative value on failure.

gnutls_x509_crl_get_authority_key_id

-- Function: int gnutls_x509_crl_get_authority_key_id
(gnutls_x509_crl_t CRL, void * RET, size_t * RET_SIZE,
unsigned int * CRITICAL)

CRL: should contain a `gnutls_x509_crl_t` structure

RET: The place where the identifier will be copied

RET_SIZE: Holds the size of the result field.

CRITICAL: will be non zero if the extension is marked as critical (may be null)

This function will return the CRL authority's key identifier. This is obtained by the X.509 Authority Key identifier extension field (2.5.29.35). Note that this function only returns the keyIdentifier field of the extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error.

Since: 2.8.0

gnutls_x509_crl_get_crt_count

-- Function: int gnutls_x509_crl_get_crt_count (gnutls_x509_crl_t CRL)
CRL: should contain a `gnutls_x509_crl_t' structure

This function will return the number of revoked certificates in the given CRL.

Returns: number of certificates, a negative value on failure.

gnutls_x509_crl_get_crt_serial

-- Function: int gnutls_x509_crl_get_crt_serial (gnutls_x509_crl_t CRL, int INDX, unsigned char * SERIAL, size_t * SERIAL_SIZE, time_t * T)
CRL: should contain a `gnutls_x509_crl_t' structure

INDX: the index of the certificate to extract (starting from 0)

SERIAL: where the serial number will be copied

SERIAL_SIZE: initially holds the size of serial

T: if non null, will hold the time this certificate was revoked

This function will retrieve the serial number of the specified, by the index, revoked certificate.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value. and a negative value on error.

gnutls_x509_crl_get_dn_oid

-- Function: int gnutls_x509_crl_get_dn_oid (gnutls_x509_crl_t CRL, int INDX, void * OID, size_t * SIZEOF_OID)
CRL: should contain a gnutls_x509_crl_t structure

INDX: Specifies which DN OID to send. Use zero to get the first one.

OID: a pointer to a structure to hold the name (may be null)

SIZEOF_OID: initially holds the size of 'oid'

This function will extract the requested OID of the name of the CRL issuer, specified by the given index.

If oid is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `sizeof_oid` will be updated with the required size. On success 0 is returned.

`gnutls_x509_crl_get_extension_data`

-- Function: `int gnutls_x509_crl_get_extension_data (gnutls_x509_crl_t CRL, int INDX, void * DATA, size_t * SIZEOF_DATA)`
CRL: should contain a `gnutls_x509_crl_t` structure

INDX: Specifies which extension OID to send. Use zero to get the first one.

DATA: a pointer to a structure to hold the data (may be null)

SIZEOF_DATA: initially holds the size of `oid`

This function will return the requested extension data in the CRL. The extension data will be stored as a string in the provided buffer.

Use `gnutls_x509_crl_get_extension_info()` to extract the OID and critical flag. Use `gnutls_x509_crl_get_extension_by_oid()` instead, if you want to get data indexed by the extension OID rather than sequence.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

`gnutls_x509_crl_get_extension_info`

-- Function: `int gnutls_x509_crl_get_extension_info (gnutls_x509_crl_t CRL, int INDX, void * OID, size_t * SIZEOF_OID, int * CRITICAL)`
CRL: should contain a `gnutls_x509_crl_t` structure

INDX: Specifies which extension OID to send, use zero to get the first one.

OID: a pointer to a structure to hold the OID

SIZEOF_OID: initially holds the maximum size of `oid`, on return holds actual size of `oid`.

CRITICAL: output variable with critical flag, may be NULL.

This function will return the requested extension OID in the CRL, and the critical flag for it. The extension OID will be stored as a string in the provided buffer. Use `gnutls_x509_crl_get_extension_data()` to extract the data.

If the buffer provided is not long enough to hold the output, then `*sizeof_oid` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

***Since:** 2.8.0

gnutls_x509_crl_get_extension_oid

-- Function: int gnutls_x509_crl_get_extension_oid (gnutls_x509_crl_t CRL, int INDX, void * OID, size_t * SIZEOF_OID)

CRL: should contain a `gnutls_x509_crl_t` structure

INDX: Specifies which extension OID to send, use zero to get the first one.

OID: a pointer to a structure to hold the OID (may be null)

SIZEOF_OID: initially holds the size of `oid`

This function will return the requested extension OID in the CRL. The extension OID will be stored as a string in the provided buffer.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crl_get_issuer_dn_by_oid

-- Function: int gnutls_x509_crl_get_issuer_dn_by_oid
(gnutls_x509_crl_t CRL, const char * OID, int INDX, unsigned
int RAW_FLAG, void * BUF, size_t * SIZEOF_BUF)
CRL: should contain a gnutls_x509_crl_t structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the RDN, this specifies
which to send. Use zero to get the first one.

RAW_FLAG: If non zero returns the raw DER data of the DN part.

BUF: a pointer to a structure to hold the peer's name (may be null)

SIZEOF_BUF: initially holds the size of `buf`

This function will extract the part of the name of the CRL issuer
specified by the given OID. The output will be encoded as described
in RFC2253. The output string will be ASCII or UTF-8 encoded,
depending on the certificate data.

Some helper macros with popular OIDs can be found in gnutls/x509.h

If raw flag is zero, this function will only return known OIDs as
text. Other OIDs will be DER encoded, as described in RFC2253 - in
hex format with a `#` prefix. You can check about known OIDs
using `gnutls_x509_dn_oid_known()`.

If buf is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is
not long enough, and in that case the sizeof_buf will be updated
with the required size, and 0 on success.

gnutls_x509_crl_get_issuer_dn

-- Function: int gnutls_x509_crl_get_issuer_dn (const
gnutls_x509_crl_t CRL, char * BUF, size_t * SIZEOF_BUF)
CRL: should contain a gnutls_x509_crl_t structure

BUF: a pointer to a structure to hold the peer's name (may be null)

SIZEOF_BUF: initially holds the size of `buf`

This function will copy the name of the CRL issuer in the provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If buf is `NULL` then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the sizeof_buf will be updated with the required size, and 0 on success.

gnutls_x509_crl_get_next_update

-- Function: time_t gnutls_x509_crl_get_next_update (gnutls_x509_crl_t CRL)

CRL: should contain a `gnutls_x509_crl_t` structure

This function will return the time the next CRL will be issued. This field is optional in a CRL so it might be normal to get an error instead.

Returns: when the next CRL will be issued, or (time_t)-1 on error.

gnutls_x509_crl_get_number

-- Function: int gnutls_x509_crl_get_number (gnutls_x509_crl_t CRL, void * RET, size_t * RET_SIZE, unsigned int * CRITICAL)

CRL: should contain a `gnutls_x509_crl_t` structure

RET: The place where the number will be copied

RET_SIZE: Holds the size of the result field.

CRITICAL: will be non zero if the extension is marked as critical (may be null)

This function will return the CRL number extension. This is obtained by the CRL Number extension field (2.5.29.20).

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error.

Since: 2.8.0

gnutls_x509_crl_get_signature_algorithm

-- Function: int gnutls_x509_crl_get_signature_algorithm
(gnutls_x509_crl_t CRL)

CRL: should contain a `gnutls_x509_crl_t' structure

This function will return a value of the `gnutls_sign_algorithm_t'
enumeration that is the signature algorithm.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_crl_get_signature

-- Function: int gnutls_x509_crl_get_signature (gnutls_x509_crl_t CRL,
char * SIG, size_t * SIZEOF_SIG)

CRL: should contain a gnutls_x509_crl_t structure

SIG: a pointer where the signature part will be copied (may be
null).

SIZEOF_SIG: initially holds the size of `sig'

This function will extract the signature field of a CRL.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value. and a negative value on error.

gnutls_x509_crl_get_this_update

-- Function: time_t gnutls_x509_crl_get_this_update (gnutls_x509_crl_t
CRL)

CRL: should contain a `gnutls_x509_crl_t' structure

This function will return the time this CRL was issued.

Returns: when the CRL was issued, or (time_t)-1 on error.

gnutls_x509_crl_get_version

-- Function: int gnutls_x509_crl_get_version (gnutls_x509_crl_t CRL)

CRL: should contain a `gnutls_x509_crl_t' structure

This function will return the version of the specified CRL.

Returns: The version number, or a negative value on error.

gnutls_x509_crl_import

-- Function: int gnutls_x509_crl_import (gnutls_x509_crl_t CRL, const
gnutls_datum_t * DATA, gnutls_x509_crt_fmt_t FORMAT)
CRL: The structure to store the parsed CRL.

DATA: The DER or PEM encoded CRL.

FORMAT: One of DER or PEM

This function will convert the given DER or PEM encoded CRL to the
native `gnutls_x509_crl_t` format. The output will be stored in
'crl'.

If the CRL is PEM encoded it should have a header of "X509 CRL".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_x509_crl_init

-- Function: int gnutls_x509_crl_init (gnutls_x509_crl_t * CRL)
CRL: The structure to be initialized

This function will initialize a CRL structure. CRL stands for
Certificate Revocation List. A revocation list usually contains
lists of certificate serial numbers that have been revoked by an
Authority. The revocation lists are always signed with the
authority's private key.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_x509_crl_print

-- Function: int gnutls_x509_crl_print (gnutls_x509_crl_t CRL,
gnutls_certificate_print_formats_t FORMAT, gnutls_datum_t *
OUT)

CRL: The structure to be printed

FORMAT: Indicate the format to use

OUT: Newly allocated datum with zero terminated string.

This function will pretty print a X.509 certificate revocation list, suitable for display to a human.

The output `out` needs to be deallocate using `gnutls_free()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crl_set_authority_key_id

-- Function: int gnutls_x509_crl_set_authority_key_id
(gnutls_x509_crl_t CRL, const void * ID, size_t ID_SIZE)
CRL: a CRL of type `gnutls_x509_crl_t`

ID: The key ID

ID_SIZE: Holds the size of the serial field.

This function will set the CRL's authority key ID extension. Only the keyIdentifier field can be set with this function.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_crl_set_crt_serial

-- Function: int gnutls_x509_crl_set_crt_serial (gnutls_x509_crl_t
CRL, const void * SERIAL, size_t SERIAL_SIZE, time_t
REVOCATION_TIME)
CRL: should contain a gnutls_x509_crl_t structure

SERIAL: The revoked certificate's serial number

SERIAL_SIZE: Holds the size of the serial field.

REVOCATION_TIME: The time this certificate was revoked

This function will set a revoked certificate's serial number to the CRL.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a

negative error value.

gnutls_x509_crl_set_crt

-- Function: int gnutls_x509_crl_set_crt (gnutls_x509_crl_t CRL,
gnutls_x509_crt_t CRT, time_t REVOCATION_TIME)
CRL: should contain a gnutls_x509_crl_t structure

CRT: a certificate of type `gnutls_x509_crt_t' with the revoked
certificate

REVOCATION_TIME: The time this certificate was revoked

This function will set a revoked certificate's serial number to
the CRL.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_crl_set_next_update

-- Function: int gnutls_x509_crl_set_next_update (gnutls_x509_crl_t
CRL, time_t EXP_TIME)
CRL: should contain a gnutls_x509_crl_t structure

EXP_TIME: The actual time

This function will set the time this CRL will be updated.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_crl_set_number

-- Function: int gnutls_x509_crl_set_number (gnutls_x509_crl_t CRL,
const void * NR, size_t NR_SIZE)
CRL: a CRL of type `gnutls_x509_crl_t'

NR: The CRL number

NR_SIZE: Holds the size of the nr field.

This function will set the CRL's number extension.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a

negative error value.

Since: 2.8.0

gnutls_x509_crl_set_this_update

-- Function: int gnutls_x509_crl_set_this_update (gnutls_x509_crl_t
CRL, time_t ACT_TIME)

CRL: should contain a gnutls_x509_crl_t structure

ACT_TIME: The actual time

This function will set the time this CRL was issued.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_x509_crl_set_version

-- Function: int gnutls_x509_crl_set_version (gnutls_x509_crl_t CRL,
unsigned int VERSION)

CRL: should contain a gnutls_x509_crl_t structure

VERSION: holds the version number. For CRLv1 crls must be 1.

This function will set the version of the CRL. This must be one
for CRL version 1, and so on. The CRLs generated by gnutls should
have a version number of 2.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a
negative error value.

gnutls_x509_crl_sign2

-- Function: int gnutls_x509_crl_sign2 (gnutls_x509_crl_t CRL,
gnutls_x509_crt_t ISSUER, gnutls_x509_privkey_t ISSUER_KEY,
gnutls_digest_algorithm_t DIG, unsigned int FLAGS)

CRL: should contain a gnutls_x509_crl_t structure

ISSUER: is the certificate of the certificate issuer

ISSUER_KEY: holds the issuer's private key

DIG: The message digest to use. GNUTLS_DIG_SHA1 is the safe choice
unless you know what you're doing.

FLAGS: must be 0

This function will sign the CRL with the issuer's private key, and will copy the issuer's information into the CRL.

This must be the last step in a certificate CRL since all the previously set parameters are now signed.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_x509_crl_sign`

-- Function: `int gnutls_x509_crl_sign (gnutls_x509_crl_t CRL, gnutls_x509_crt_t ISSUER, gnutls_x509_privkey_t ISSUER_KEY)`
CRL: should contain a `gnutls_x509_crl_t` structure

ISSUER: is the certificate of the certificate issuer

ISSUER_KEY: holds the issuer's private key

This function is the same as `gnutls_x509_crl_sign2()` with no flags, and SHA1 as the hash algorithm.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_x509_crl_verify`

-- Function: `int gnutls_x509_crl_verify (gnutls_x509_crl_t CRL, const gnutls_x509_crt_t * CA_LIST, int CA_LIST_LENGTH, unsigned int FLAGS, unsigned int * VERIFY)`

CRL: is the crl to be verified

CA_LIST: is a certificate list that is considered to be trusted one

CA_LIST_LENGTH: holds the number of CA certificates in CA_list

FLAGS: Flags that may be used to change the verification algorithm. Use OR of the `gnutls_certificate_verify_flags` enumerations.

VERIFY: will hold the crl verification output.

This function will try to verify the given crl and return its

status. See `gnutls_x509_cert_list_verify()` for a detailed description of return values.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_deinit

-- Function: void gnutls_x509_crq_deinit (gnutls_x509_crq_t CRQ)
CRQ: The structure to be initialized

This function will deinitialize a CRL structure.

gnutls_x509_crq_export

-- Function: int gnutls_x509_crq_export (gnutls_x509_crq_t CRQ,
gnutls_x509_cert_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)
CRQ: Holds the request

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a certificate request PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the certificate request to a PKCS10

If the buffer provided is not long enough to hold the output, then GNUTLS_E_SHORT_MEMORY_BUFFER will be returned and *output_data_size will be updated.

If the structure is PEM encoded, it will have a header of "BEGIN NEW CERTIFICATE REQUEST".

***Return value:** In case of failure a negative value will be returned, and 0 on success.

gnutls_x509_crq_get_attribute_by_oid

-- Function: int gnutls_x509_crq_get_attribute_by_oid
(gnutls_x509_crq_t CRQ, const char * OID, int INDX, void *
BUF, size_t * SIZEOF_BUF)
CRQ: should contain a gnutls_x509_crq_t structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the attribute list, this specifies which to send. Use zero to get the first one.

BUF: a pointer to a structure to hold the attribute data (may be null)

SIZEOF_BUF: initially holds the size of `buf`

This function will return the attribute in the certificate request specified by the given Object ID. The attribute will be DER encoded.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_get_attribute_data

-- Function: int gnutls_x509_crq_get_attribute_data (gnutls_x509_crq_t
CERT, int INDX, void * DATA, size_t * SIZEOF_DATA)
CERT: should contain a `gnutls_x509_crq_t` structure

INDX: Specifies which attribute OID to send. Use zero to get the first one.

DATA: a pointer to a structure to hold the data (may be null)

SIZEOF_DATA: initially holds the size of `oid`

This function will return the requested attribute data in the certificate request. The attribute data will be stored as a string in the provided buffer.

Use `gnutls_x509_crq_get_attribute_info()` to extract the OID.
Use `gnutls_x509_crq_get_attribute_by_oid()` instead, if you want to get data indexed by the attribute OID rather than sequence.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crq_get_attribute_info

-- Function: int gnutls_x509_crq_get_attribute_info (gnutls_x509_crq_t
CERT, int INDX, void * OID, size_t * SIZEOF_OID)
CERT: should contain a `gnutls_x509_crq_t' structure

INDX: Specifies which attribute OID to send. Use zero to get the first one.

OID: a pointer to a structure to hold the OID

SIZEOF_OID: initially holds the maximum size of `oid', on return holds actual size of `oid'.

This function will return the requested attribute OID in the certificate, and the critical flag for it. The attribute OID will be stored as a string in the provided buffer. Use `gnutls_x509_crq_get_attribute_data()' to extract the data.

If the buffer provided is not long enough to hold the output, then `*sizeof_oid' is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER' will be returned.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE' will be returned.

Since: 2.8.0

gnutls_x509_crq_get_basic_constraints

-- Function: int gnutls_x509_crq_get_basic_constraints
(gnutls_x509_crq_t CERT, unsigned int * CRITICAL, int * CA,
int * PATHLEN)
CERT: should contain a `gnutls_x509_crq_t' structure

CRITICAL: will be non zero if the extension is marked as critical

CA: pointer to output integer indicating CA status, may be NULL, value is 1 if the certificate CA flag is set, 0 otherwise.

PATHLEN: pointer to output integer indicating path length (may be NULL), non-negative values indicate a present pathLenConstraint field and the actual value, -1 indicate that the field is absent.

This function will read the certificate's basic constraints, and

return the certificates CA status. It reads the basicConstraints X.509 extension (2.5.29.19).

***Return value:** If the certificate is a CA a positive value will be returned, or zero if the certificate does not have CA flag set. A negative value may be returned in case of errors. If the certificate does not contain the basicConstraints extension `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

***Since:** 2.8.0

gnutls_x509_crq_get_challenge_password

-- Function: int gnutls_x509_crq_get_challenge_password
(gnutls_x509_crq_t CRQ, char * PASS, size_t * SIZEOF_PASS)
CRQ: should contain a gnutls_x509_crq_t structure

PASS: will hold a null terminated password

SIZEOF_PASS: Initially holds the size of `pass`.

This function will return the challenge password in the request.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_get_dn_by_oid

-- Function: int gnutls_x509_crq_get_dn_by_oid (gnutls_x509_crq_t CRQ,
const char * OID, int INDX, unsigned int RAW_FLAG, void *
BUF, size_t * SIZEOF_BUF)
CRQ: should contain a gnutls_x509_crq_t structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get the first one.

RAW_FLAG: If non zero returns the raw DER data of the DN part.

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of `buf`

This function will extract the part of the name of the Certificate request subject, specified by the given OID. The output will be

encoded as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

Some helper macros with popular OIDs can be found in `gnutls/x509.h`. If `raw` flag is zero, this function will only return known OIDs as text. Other OIDs will be DER encoded, as described in RFC2253 - in hex format with a `\#` prefix. You can check about known OIDs using ``gnutls_x509_dn_oid_known()'`.

If ``buf'` is null then only the size will be filled.

***Returns:** `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `*sizeof_buf` will be updated with the required size. On success 0 is returned.

`gnutls_x509_crq_get_dn_oid`

-- Function: `int gnutls_x509_crq_get_dn_oid (gnutls_x509_crq_t CRQ, int INDX, void * OID, size_t * SIZEOF_OID)`
CRQ: should contain a `gnutls_x509_crq_t` structure

INDX: Specifies which DN OID to send. Use zero to get the first one.

OID: a pointer to a structure to hold the name (may be null)

SIZEOF_OID: initially holds the size of ``oid'`

This function will extract the requested OID of the name of the Certificate request subject, specified by the given index.

If `oid` is null then only the size will be filled.

***Returns:** `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the `*sizeof_oid` will be updated with the required size. On success 0 is returned.

`gnutls_x509_crq_get_dn`

-- Function: `int gnutls_x509_crq_get_dn (gnutls_x509_crq_t CRQ, char * BUF, size_t * SIZEOF_BUF)`
CRQ: should contain a `gnutls_x509_crq_t` structure

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of ``buf'`

This function will copy the name of the Certificate request subject in the provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If `buf` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf* will be updated with the required size. On success 0 is returned.

gnutls_x509_crq_get_extension_by_oid

-- Function: int gnutls_x509_crq_get_extension_by_oid
(gnutls_x509_crq_t CERT, const char * OID, int INDX, void *
BUF, size_t * SIZEOF_BUF, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_crq_t` structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the extensions, this specifies which to send. Use zero to get the first one.

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of `buf`

CRITICAL: will be non zero if the extension is marked as critical

This function will return the extension specified by the OID in the certificate. The extensions will be returned as binary data DER encoded, in the provided buffer.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If the certificate does not contain the specified extension `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crq_get_extension_data

-- Function: int gnutls_x509_crq_get_extension_data (gnutls_x509_crq_t
CERT, int INDX, void * DATA, size_t * SIZEOF_DATA)
CERT: should contain a `gnutls_x509_crq_t` structure

INDX: Specifies which extension OID to send. Use zero to get the first one.

DATA: a pointer to a structure to hold the data (may be null)

SIZEOF_DATA: initially holds the size of `oid`

This function will return the requested extension data in the certificate. The extension data will be stored as a string in the provided buffer.

Use `gnutls_x509_crq_get_extension_info()` to extract the OID and critical flag. Use `gnutls_x509_crq_get_extension_by_oid()` instead, if you want to get data indexed by the extension OID rather than sequence.

**Returns:* On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

**Since:* 2.8.0

gnutls_x509_crq_get_extension_info

-- Function: int gnutls_x509_crq_get_extension_info (gnutls_x509_crq_t
CERT, int INDX, void * OID, size_t * SIZEOF_OID, int *
CRITICAL)
CERT: should contain a `gnutls_x509_crq_t` structure

INDX: Specifies which extension OID to send. Use zero to get the first one.

OID: a pointer to a structure to hold the OID

SIZEOF_OID: initially holds the maximum size of `oid`, on return holds actual size of `oid`.

CRITICAL: output variable with critical flag, may be NULL.

This function will return the requested extension OID in the certificate, and the critical flag for it. The extension OID will be stored as a string in the provided buffer. Use `gnutls_x509_crq_get_extension_data()` to extract the data.

If the buffer provided is not long enough to hold the output, then

*`sizeof_oid` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative value in case of an error. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

Since: 2.8.0

gnutls_x509_crq_get_key_id

-- Function: int gnutls_x509_crq_get_key_id (gnutls_x509_crq_t CRQ,
unsigned int FLAGS, unsigned char * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)

CRQ: Holds the certificate signing request

FLAGS: should be 0 for now

OUTPUT_DATA: will contain the key ID

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will return a unique ID that depends on the public key parameters. This ID can be used in checking whether a certificate corresponds to the given private key.

If the buffer provided is not long enough to hold the output, then *output_data_size is updated and GNUTLS_E_SHORT_MEMORY_BUFFER will be returned. The output will normally be a SHA-1 hash output, which is 20 bytes.

Return value: In case of failure a negative value will be returned, and 0 on success.

Since: 2.8.0

gnutls_x509_crq_get_key_purpose_oid

-- Function: int gnutls_x509_crq_get_key_purpose_oid
(gnutls_x509_crq_t CERT, int INDX, void * OID, size_t *
SIZEOF_OID, unsigned int * CRITICAL)

CERT: should contain a `gnutls_x509_crq_t` structure

INDX: This specifies which OID to return. Use zero to get the

first one.

OID: a pointer to a buffer to hold the OID (may be null)

SIZEOF_OID: initially holds the size of `oid`

CRITICAL: output variable with critical flag, may be NULL.

This function will extract the key purpose OIDs of the Certificate specified by the given index. These are stored in the Extended Key Usage extension (2.5.29.37). See the GNUTLS_KP_* definitions for human readable names.

If `oid` is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER` if the provided buffer is not long enough, and in that case the *sizeof_oid will be updated with the required size. On success 0 is returned.

Since: 2.8.0

gnutls_x509_crq_get_key_rsa_raw

-- Function: int gnutls_x509_crq_get_key_rsa_raw (gnutls_x509_crq_t
CRQ, gnutls_datum_t * M, gnutls_datum_t * E)
CRQ: Holds the certificate

M: will hold the modulus

E: will hold the public exponent

This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using `gnutls_malloc()` and will be stored in the appropriate datum.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_crq_get_key_usage

-- Function: int gnutls_x509_crq_get_key_usage (gnutls_x509_crq_t
CERT, unsigned int * KEY_USAGE, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_crq_t` structure

KEY_USAGE: where the key usage bits will be stored

CRITICAL: will be non zero if the extension is marked as critical

This function will return certificate's key usage, by reading the keyUsage X.509 extension (2.5.29.15). The key usage value will

ORed values of the:\`GNUTLS_KEY_DIGITAL_SIGNATURE',
\`GNUTLS_KEY_NON_REPUDIATION', `\`GNUTLS_KEY_KEY_ENCIPHERMENT',
\`GNUTLS_KEY_DATA_ENCIPHERMENT', `\`GNUTLS_KEY_KEY_AGREEMENT',
\`GNUTLS_KEY_KEY_CERT_SIGN', `\`GNUTLS_KEY_CRL_SIGN',
\`GNUTLS_KEY_ENCIPHER_ONLY', `\`GNUTLS_KEY_DECIPHER_ONLY'.

Returns: the certificate key usage, or a negative value in case of parsing error. If the certificate does not contain the keyUsage extension `\`GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE' will be returned.

Since: 2.8.0

gnutls_x509_crq_get_pk_algorithm

-- Function: int gnutls_x509_crq_get_pk_algorithm (gnutls_x509_crq_t
CRQ, unsigned int * BITS)

CRQ: should contain a gnutls_x509_crq_t structure

BITS: if bits is non null it will hold the size of the parameters'
in bits

This function will return the public key algorithm of a PKCS \`10'
certificate request.

If bits is non null, it should have enough size to hold the
parameters size in bits. For RSA the bits returned is the modulus.
For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t' enumeration on
success, or a negative value on error.

gnutls_x509_crq_get_subject_alt_name

-- Function: int gnutls_x509_crq_get_subject_alt_name
(gnutls_x509_crq_t CERT, unsigned int SEQ, void * RET, size_t
* RET_SIZE, unsigned int * RET_TYPE, unsigned int * CRITICAL)

CERT: should contain a `gnutls_x509_crq_t' structure

SEQ: specifies the sequence number of the alt name, 0 for the

first one, 1 for the second etc.

RET: is the place where the alternative name will be copied to

RET_SIZE: holds the size of ret.

RET_TYPE: holds the `gnutls_x509_subject_alt_name_t` name type

CRITICAL: will be non zero if the extension is marked as critical (may be null)

This function will return the alternative names, contained in the given certificate. It is the same as `gnutls_x509_crq_get_subject_alt_name()` except for the fact that it will return the type of the alternative name in `ret_type` even if the function fails for some reason (i.e. the buffer provided is not enough).

Returns: the alternative subject name type on success, one of the enumerated `gnutls_x509_subject_alt_name_t`. It will return `GNUTLS_E_SHORT_MEMORY_BUFFER` if `ret_size` is not large enough to hold the value. In that case `ret_size` will be updated with the required size. If the certificate request does not have an Alternative name with the specified sequence number then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` is returned.

Since: 2.8.0

gnutls_x509_crq_get_subject_alt_othername_oid

-- Function: int gnutls_x509_crq_get_subject_alt_othername_oid
(gnutls_x509_crq_t CERT, unsigned int SEQ, void * RET, size_t
* RET_SIZE)

CERT: should contain a `gnutls_x509_crq_t` structure

SEQ: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

RET: is the place where the otherName OID will be copied to

RET_SIZE: holds the size of ret.

This function will extract the type OID of an otherName Subject Alternative Name, contained in the given certificate, and return the type as an enumerated element.

This function is only useful if

`gnutls_x509_crq_get_subject_alt_name()' returned
'GNUTLS_SAN_OTHERNAME'.

**Returns:* the alternative subject name type on success, one of the enumerated `gnutls_x509_subject_alt_name_t`. For supported OIDs, it will return one of the virtual (`GNUTLS_SAN_OTHERNAME_*`) types, e.g. `'GNUTLS_SAN_OTHERNAME_XMPP'`, and `'GNUTLS_SAN_OTHERNAME'` for unknown OIDs. It will return `'GNUTLS_E_SHORT_MEMORY_BUFFER'` if `'ret_size'` is not large enough to hold the value. In that case `'ret_size'` will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number and with the `otherName` type then `'GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE'` is returned.

**Since:* 2.8.0

`gnutls_x509_crq_get_version`

-- Function: `int gnutls_x509_crq_get_version (gnutls_x509_crq_t CRQ)`
CRQ: should contain a `gnutls_x509_crq_t` structure

This function will return the version of the specified Certificate request.

**Returns:* version of certificate request, or a negative value on error.

`gnutls_x509_crq_import`

-- Function: `int gnutls_x509_crq_import (gnutls_x509_crq_t CRQ, const gnutls_datum_t * DATA, gnutls_x509 crt_fmt_t FORMAT)`
CRQ: The structure to store the parsed certificate request.

DATA: The DER or PEM encoded certificate.

FORMAT: One of DER or PEM

This function will convert the given DER or PEM encoded Certificate to the native `gnutls_x509_crq_t` format. The output will be stored in `'cert'`.

If the Certificate is PEM encoded it should have a header of "NEW CERTIFICATE REQUEST".

**Returns:* On success, `'GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

gnutls_x509_crq_init

-- Function: int gnutls_x509_crq_init (gnutls_x509_crq_t * CRQ)
CRQ: The structure to be initialized

This function will initialize a PKCS10 certificate request structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_print

-- Function: int gnutls_x509_crq_print (gnutls_x509_crq_t CRQ,
gnutls_certificate_print_formats_t FORMAT, gnutls_datum_t *
OUT)

CRQ: The structure to be printed

FORMAT: Indicate the format to use

OUT: Newly allocated datum with zero terminated string.

This function will pretty print a certificate request, suitable for display to a human.

The output `out` needs to be deallocate using `gnutls_free()`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_crq_set_attribute_by_oid

-- Function: int gnutls_x509_crq_set_attribute_by_oid
(gnutls_x509_crq_t CRQ, const char * OID, void * BUF, size_t
SIZEOF_BUF)

CRQ: should contain a gnutls_x509_crq_t structure

OID: holds an Object Identified in null terminated string

BUF: a pointer to a structure that holds the attribute data

SIZEOF_BUF: holds the size of `buf`

This function will set the attribute in the certificate request specified by the given Object ID. The attribute must be DER encoded.

**Returns:* On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_set_basic_constraints

-- Function: int gnutls_x509_crq_set_basic_constraints

(gnutls_x509_crq_t CRQ, unsigned int CA, int
PATHLENCONSTRAINT)

CRQ: a certificate of type `gnutls_x509_crq_t'

CA: true(1) or false(0). Depending on the Certificate authority status.

PATHLENCONSTRAINT: non-negative values indicate maximum length of path, and negative values indicate that the pathLenConstraints field should not be present.

This function will set the basicConstraints certificate extension.

**Returns:* On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

**Since:* 2.8.0

gnutls_x509_crq_set_challenge_password

-- Function: int gnutls_x509_crq_set_challenge_password

(gnutls_x509_crq_t CRQ, const char * PASS)

CRQ: should contain a gnutls_x509_crq_t structure

PASS: holds a null terminated password

This function will set a challenge password to be used when revoking the request.

**Returns:* On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_set_dn_by_oid

-- Function: int gnutls_x509_crq_set_dn_by_oid (gnutls_x509_crq_t CRQ,
const char * OID, unsigned int RAW_FLAG, const void * DATA,
unsigned int SIZEOF_DATA)
CRQ: should contain a gnutls_x509_crq_t structure

OID: holds an Object Identifier in a null terminated string

RAW_FLAG: must be 0, or 1 if the data are DER encoded

DATA: a pointer to the input data

SIZEOF_DATA: holds the size of `data`

This function will set the part of the name of the Certificate request subject, specified by the given OID. The input string should be ASCII or UTF-8 encoded.

Some helper macros with popular OIDs can be found in gnutls/x509.h
With this function you can only set the known OIDs. You can test for known OIDs using `gnutls_x509_dn_oid_known()`. For OIDs that are not known (by gnutls) you should properly DER encode your data, and call this function with raw_flag set.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_set_key_purpose_oid

-- Function: int gnutls_x509_crq_set_key_purpose_oid
(gnutls_x509_crq_t CERT, const void * OID, unsigned int
CRITICAL)
CERT: a certificate of type `gnutls_x509_crq_t`

OID: a pointer to a null terminated string that holds the OID

CRITICAL: Whether this extension will be critical or not

This function will set the key purpose OIDs of the Certificate. These are stored in the Extended Key Usage extension (2.5.29.37) See the GNUTLS_KP_* definitions for human readable names.

Subsequent calls to this function will append OIDs to the OID list.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_crq_set_key_rsa_raw

-- Function: int gnutls_x509_crq_set_key_rsa_raw (gnutls_x509_crq_t
CRQ, const gnutls_datum_t * M, const gnutls_datum_t * E)
CRQ: should contain a `gnutls_x509_crq_t' structure

M: holds the modulus

E: holds the public exponent

This function will set the public parameters from the given private
key to the request. Only RSA keys are currently supported.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

Since: 2.6.0

gnutls_x509_crq_set_key_usage

-- Function: int gnutls_x509_crq_set_key_usage (gnutls_x509_crq_t CRQ,
unsigned int USAGE)
CRQ: a certificate of type `gnutls_x509_crq_t'

USAGE: an ORed sequence of the GNUTLS_KEY_* elements.

This function will set the keyUsage certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

Since: 2.8.0

gnutls_x509_crq_set_key

-- Function: int gnutls_x509_crq_set_key (gnutls_x509_crq_t CRQ,
gnutls_x509_privkey_t KEY)
CRQ: should contain a gnutls_x509_crq_t structure

KEY: holds a private key

This function will set the public parameters from the given
private key to the request. Only RSA keys are currently supported.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_set_subject_alt_name

-- Function: int gnutls_x509_crq_set_subject_alt_name
(gnutls_x509_crq_t CRQ, gnutls_x509_subject_alt_name_t NT,
const void * DATA, unsigned int DATA_SIZE, unsigned int FLAGS)
CRQ: a certificate of type `gnutls_x509_crq_t`

NT: is one of the `gnutls_x509_subject_alt_name_t` enumerations

DATA: The data to be set

DATA_SIZE: The size of data to be set

FLAGS: `GNUTLS_FSAN_SET` to clear previous data or
`GNUTLS_FSAN_APPEND` to append.

This function will set the subject alternative name certificate extension. It can set the following types:

&GNUTLS_SAN_DNSNAME: as a text string

&GNUTLS_SAN_RFC822NAME: as a text string

&GNUTLS_SAN_URI: as a text string

&GNUTLS_SAN_IPADDRESS: as a binary IP address (4 or 16 bytes)

Other values can be set as binary values with the proper DER encoding.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_crq_set_version

-- Function: int gnutls_x509_crq_set_version (gnutls_x509_crq_t CRQ,
unsigned int VERSION)
CRQ: should contain a gnutls_x509_crq_t structure

VERSION: holds the version number. For v1 Requests must be 1.

This function will set the version of the certificate request. For version 1 requests this must be one.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_crq_sign2

-- Function: int gnutls_x509_crq_sign2 (gnutls_x509_crq_t CRQ,
gnutls_x509_privkey_t KEY, gnutls_digest_algorithm_t DIG,
unsigned int FLAGS)
CRQ: should contain a `gnutls_x509_crq_t` structure

KEY: holds a private key

DIG: The message digest to use, `GNUTLS_DIG_SHA1` is the safe choice unless you know what you're doing.

FLAGS: must be 0

This function will sign the certificate request with a private key. This must be the same key as the one used in `gnutls_x509 crt_set_key()` since a certificate request is self signed.

This must be the last step in a certificate request generation since all the previously set parameters are now signed.

***Returns:** `GNUTLS_E_SUCCESS` on success, otherwise an error. `GNUTLS_E_ASN1_VALUE_NOT_FOUND` is returned if you didn't set all information in the certificate request (e.g., the version using `gnutls_x509_crq_set_version()`).

gnutls_x509_crq_sign

-- Function: int gnutls_x509_crq_sign (gnutls_x509_crq_t CRQ,
gnutls_x509_privkey_t KEY)
CRQ: should contain a gnutls_x509_crq_t structure

KEY: holds a private key

This function is the same as `gnutls_x509_crq_sign2()` with no flags, and SHA1 as the hash algorithm.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_check_hostname

-- Function: int gnutls_x509_cert_check_hostname (gnutls_x509_cert_t
CERT, const char * HOSTNAME)

CERT: should contain an gnutls_x509_cert_t structure

HOSTNAME: A null terminated string that contains a DNS name

This function will check if the given certificate's subject matches the given hostname. This is a basic implementation of the matching described in RFC2818 (HTTPS), which takes into account wildcards, and the DNSName/IPAddress subject alternative name PKIX extension.

Returns: non zero for a successful match, and zero on failure.

gnutls_x509_cert_check_issuer

-- Function: int gnutls_x509_cert_check_issuer (gnutls_x509_cert_t CERT,
gnutls_x509_cert_t ISSUER)

CERT: is the certificate to be checked

ISSUER: is the certificate of a possible issuer

This function will check if the given certificate was issued by the given issuer.

Returns: It will return true (1) if the given certificate is issued by the given issuer, and false (0) if not. A negative value is returned in case of an error.

gnutls_x509_cert_check_revocation

-- Function: int gnutls_x509_cert_check_revocation (gnutls_x509_cert_t
CERT, const gnutls_x509_crl_t * CRL_LIST, int CRL_LIST_LENGTH)

CERT: should contain a `gnutls_x509_cert_t' structure

CRL_LIST: should contain a list of gnutls_x509_crl_t structures

CRL_LIST_LENGTH: the length of the crl_list

This function will return check if the given certificate is revoked. It is assumed that the CRLs have been verified before.

Returns: 0 if the certificate is NOT revoked, and 1 if it is. A

negative value is returned on error.

gnutls_x509_crt_cpy_crl_dist_points

-- Function: int gnutls_x509_crt_cpy_crl_dist_points
(gnutls_x509_crt_t DST, gnutls_x509_crt_t SRC)
DST: a certificate of type `gnutls_x509_crt_t'

SRC: the certificate where the dist points will be copied from

This function will copy the CRL distribution points certificate extension, from the source to the destination certificate. This may be useful to copy from a CA certificate to issued ones.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_crt_deinit

-- Function: void gnutls_x509_crt_deinit (gnutls_x509_crt_t CERT)
CERT: The structure to be initialized

This function will deinitialize a CRL structure.

gnutls_x509_crt_export

-- Function: int gnutls_x509_crt_export (gnutls_x509_crt_t CERT,
gnutls_x509_crt_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)
CERT: Holds the certificate

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a certificate PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the certificate to DER or PEM format.

If the buffer provided is not long enough to hold the output, then *output_data_size is updated and GNUTLS_E_SHORT_MEMORY_BUFFER will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN

CERTIFICATE".

Return value: In case of failure a negative value will be returned, and 0 on success.

gnutls_x509_cert_get_activation_time

-- Function: time_t gnutls_x509_cert_get_activation_time
(gnutls_x509_cert_t CERT)
CERT: should contain a `gnutls_x509_cert_t' structure

This function will return the time this Certificate was or will be activated.

Returns: activation time, or (time_t)-1 on error.

gnutls_x509_cert_get_authority_key_id

-- Function: int gnutls_x509_cert_get_authority_key_id
(gnutls_x509_cert_t CERT, void * RET, size_t * RET_SIZE,
unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

RET: The place where the identifier will be copied

RET_SIZE: Holds the size of the result field.

CRITICAL: will be non zero if the extension is marked as critical
(may be null)

This function will return the X.509v3 certificate authority's key identifier. This is obtained by the X.509 Authority Key identifier extension field (2.5.29.35). Note that this function only returns the keyIdentifier field of the extension.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value and a negative value in case of an error.

gnutls_x509_cert_get_basic_constraints

-- Function: int gnutls_x509_cert_get_basic_constraints
(gnutls_x509_cert_t CERT, unsigned int * CRITICAL, int * CA,
int * PATHLEN)
CERT: should contain a `gnutls_x509_cert_t' structure

CRITICAL: will be non zero if the extension is marked as critical

CA: pointer to output integer indicating CA status, may be NULL, value is 1 if the certificate CA flag is set, 0 otherwise.

PATHLEN: pointer to output integer indicating path length (may be NULL), non-negative values indicate a present pathLenConstraint field and the actual value, -1 indicate that the field is absent.

This function will read the certificate's basic constraints, and return the certificates CA status. It reads the basicConstraints X.509 extension (2.5.29.19).

Return value: If the certificate is a CA a positive value will be returned, or zero if the certificate does not have CA flag set. A negative value may be returned in case of errors. If the certificate does not contain the basicConstraints extension GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE will be returned.

gnutls_x509_cert_get_ca_status

-- Function: int gnutls_x509_cert_get_ca_status (gnutls_x509_cert_t
CERT, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

CRITICAL: will be non zero if the extension is marked as critical

This function will return certificates CA status, by reading the basicConstraints X.509 extension (2.5.29.19). If the certificate is a CA a positive value will be returned, or zero if the certificate does not have CA flag set.

Use `gnutls_x509_cert_get_basic_constraints()' if you want to read the pathLenConstraint field too.

Returns: A negative value may be returned in case of parsing error. If the certificate does not contain the basicConstraints extension `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE' will be returned.

gnutls_x509_cert_get_crl_dist_points

-- Function: int gnutls_x509_cert_get_crl_dist_points
(gnutls_x509_cert_t CERT, unsigned int SEQ, void * RET, size_t
* RET_SIZE, unsigned int * REASON_FLAGS, unsigned int *
CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

SEQ: specifies the sequence number of the distribution point (0 for the first one, 1 for the second etc.)

RET: is the place where the distribution point will be copied to

RET_SIZE: holds the size of ret.

REASON_FLAGS: Revocation reasons flags.

CRITICAL: will be non zero if the extension is marked as critical (may be null)

This function will return the CRL distribution points (2.5.29.31), contained in the given certificate.

`reason_flags' should be an ORed sequence of GNUTLS_CRL_REASON_UNUSED, GNUTLS_CRL_REASON_KEY_COMPROMISE, GNUTLS_CRL_REASON_CA_COMPROMISE, GNUTLS_CRL_REASON_AFFILIATION_CHANGED, GNUTLS_CRL_REASON_SUPERSEDED, GNUTLS_CRL_REASON_CESSATION_OF_OPERATION, GNUTLS_CRL_REASON_CERTIFICATE_HOLD, GNUTLS_CRL_REASON_PRIVILEGE_WITHDRAWN, GNUTLS_CRL_REASON_AA_COMPROMISE, or zero for all possible reasons.

This is specified in X509v3 Certificate Extensions. GNUTLS will return the distribution point type, or a negative error code on error.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER' and updates &`ret_size' if &`ret_size' is not enough to hold the distribution point, or the type of the distribution point if everything was ok. The type is one of the enumerated `gnutls_x509_subject_alt_name_t'. If the certificate does not have an Alternative name with the specified sequence number then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE' is returned.

gnutls_x509_cert_get_dn_by_oid

-- Function: int gnutls_x509_cert_get_dn_by_oid (gnutls_x509_cert_t CERT, const char * OID, int INDX, unsigned int RAW_FLAG, void * BUF, size_t * SIZEOF_BUF)

CERT: should contain a `gnutls_x509_cert_t' structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get the first one.

RAW_FLAG: If non zero returns the raw DER data of the DN part.

BUF: a pointer where the DN part will be copied (may be null).

SIZEOF_BUF: initially holds the size of `buf`

This function will extract the part of the name of the Certificate subject specified by the given OID. The output, if the raw flag is not used, will be encoded as described in RFC2253. Thus a string that is ASCII or UTF-8 encoded, depending on the certificate data.

Some helper macros with popular OIDs can be found in gnutls/x509.h
If raw flag is zero, this function will only return known OIDs as text. Other OIDs will be DER encoded, as described in RFC2253 - in hex format with a '#' prefix. You can check about known OIDs using `gnutls_x509_dn_oid_known()`.

If `buf` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_dn_oid

-- Function: int gnutls_x509_cert_get_dn_oid (gnutls_x509_cert_t CERT,
int INDX, void * OID, size_t * SIZEOF_OID)
CERT: should contain a `gnutls_x509_cert_t` structure

INDX: This specifies which OID to return. Use zero to get the first one.

OID: a pointer to a buffer to hold the OID (may be null)

SIZEOF_OID: initially holds the size of `oid`

This function will extract the OIDs of the name of the Certificate subject specified by the given index.

If oid is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_oid will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_dn

-- Function: int gnutls_x509_cert_get_dn (gnutls_x509_cert_t CERT, char
* BUF, size_t * SIZEOF_BUF)

CERT: should contain a `gnutls_x509_cert_t' structure

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of `buf'

This function will copy the name of the Certificate in the provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If `buf' is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_expiration_time

-- Function: time_t gnutls_x509_cert_get_expiration_time
(gnutls_x509_cert_t CERT)

CERT: should contain a `gnutls_x509_cert_t' structure

This function will return the time this Certificate was or will be expired.

Returns: expiration time, or (time_t)-1 on error.

gnutls_x509_cert_get_extension_by_oid

-- Function: int gnutls_x509_cert_get_extension_by_oid
(gnutls_x509_cert_t CERT, const char * OID, int INDX, void *
BUF, size_t * SIZEOF_BUF, unsigned int * CRITICAL)

CERT: should contain a `gnutls_x509_cert_t' structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the extensions, this specifies which to send. Use zero to get the first one.

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of `buf`

CRITICAL: will be non zero if the extension is marked as critical

This function will return the extension specified by the OID in the certificate. The extensions will be returned as binary data DER encoded, in the provided buffer.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned. If the certificate does not contain the specified extension
GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE will be returned.

gnutls_x509_cert_get_extension_data

-- Function: int gnutls_x509_cert_get_extension_data (gnutls_x509_cert_t
CERT, int INDX, void * DATA, size_t * SIZEOF_DATA)
CERT: should contain a `gnutls_x509_cert_t` structure

INDX: Specifies which extension OID to send. Use zero to get the first one.

DATA: a pointer to a structure to hold the data (may be null)

SIZEOF_DATA: initially holds the size of `oid`

This function will return the requested extension data in the certificate. The extension data will be stored as a string in the provided buffer.

Use `gnutls_x509_cert_get_extension_info()` to extract the OID and critical flag. Use `gnutls_x509_cert_get_extension_by_oid()` instead, if you want to get data indexed by the extension OID rather than sequence.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

gnutls_x509_cert_get_extension_info

-- Function: int gnutls_x509_cert_get_extension_info (gnutls_x509_cert_t
CERT, int INDX, void * OID, size_t * SIZEOF_OID, int *

CRITICAL)

CERT: should contain a `gnutls_x509 crt_t` structure

INDX: Specifies which extension OID to send. Use zero to get the first one.

OID: a pointer to a structure to hold the OID

SIZEOF_OID: initially holds the maximum size of `oid`, on return holds actual size of `oid`.

CRITICAL: output variable with critical flag, may be NULL.

This function will return the requested extension OID in the certificate, and the critical flag for it. The extension OID will be stored as a string in the provided buffer. Use `gnutls_x509 crt_get_extension_data()` to extract the data.

If the buffer provided is not long enough to hold the output, then `*sizeof_oid` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

gnutls_x509 crt_get_extension_oid

-- Function: int gnutls_x509 crt_get_extension_oid (gnutls_x509 crt_t
CERT, int INDX, void * OID, size_t * SIZEOF_OID)
CERT: should contain a `gnutls_x509 crt_t` structure

INDX: Specifies which extension OID to send. Use zero to get the first one.

OID: a pointer to a structure to hold the OID (may be null)

SIZEOF_OID: initially holds the size of `oid`

This function will return the requested extension OID in the certificate. The extension OID will be stored as a string in the provided buffer.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned. If you have reached the last extension available `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will

be returned.

`gnutls_x509_cert_get_fingerprint`

-- Function: `int gnutls_x509_cert_get_fingerprint (gnutls_x509_cert_t CERT, gnutls_digest_algorithm_t ALGO, void * BUF, size_t * SIZEOF_BUF)`

CERT: should contain a ``gnutls_x509_cert_t'` structure

ALGO: is a digest algorithm

BUF: a pointer to a structure to hold the fingerprint (may be null)

SIZEOF_BUF: initially holds the size of ``buf'`

This function will calculate and copy the certificate's fingerprint in the provided buffer.

If the buffer is null then only the size will be filled.

Returns: ``GNUTLS_E_SHORT_MEMORY_BUFFER'` if the provided buffer is not long enough, and in that case the `*sizeof_buf` will be updated with the required size. On success 0 is returned.

`gnutls_x509_cert_get_issuer_dn_by_oid`

-- Function: `int gnutls_x509_cert_get_issuer_dn_by_oid (gnutls_x509_cert_t CERT, const char * OID, int INDX, unsigned int RAW_FLAG, void * BUF, size_t * SIZEOF_BUF)`

CERT: should contain a ``gnutls_x509_cert_t'` structure

OID: holds an Object Identified in null terminated string

INDX: In case multiple same OIDs exist in the RDN, this specifies which to send. Use zero to get the first one.

RAW_FLAG: If non zero returns the raw DER data of the DN part.

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of ``buf'`

This function will extract the part of the name of the Certificate issuer specified by the given OID. The output, if the raw flag is not used, will be encoded as described in RFC2253. Thus a string that is ASCII or UTF-8 encoded, depending on the certificate data.

Some helper macros with popular OIDs can be found in gnutls/x509.h
If raw flag is zero, this function will only return known OIDs as
text. Other OIDs will be DER encoded, as described in RFC2253 - in
hex format with a '\#' prefix. You can check about known OIDs
using `gnutls_x509_dn_oid_known()`.

If `buf` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is
not long enough, and in that case the *sizeof_buf will be updated
with the required size. On success 0 is returned.

gnutls_x509_cert_get_issuer_dn_oid

-- Function: int gnutls_x509_cert_get_issuer_dn_oid (gnutls_x509_cert_t
CERT, int INDX, void * OID, size_t * SIZEOF_OID)
CERT: should contain a `gnutls_x509_cert_t` structure

INDX: This specifies which OID to return. Use zero to get the
first one.

OID: a pointer to a buffer to hold the OID (may be null)

SIZEOF_OID: initially holds the size of `oid`

This function will extract the OIDs of the name of the Certificate
issuer specified by the given index.

If `oid` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is
not long enough, and in that case the *sizeof_oid will be updated
with the required size. On success 0 is returned.

gnutls_x509_cert_get_issuer_dn

-- Function: int gnutls_x509_cert_get_issuer_dn (gnutls_x509_cert_t
CERT, char * BUF, size_t * SIZEOF_BUF)
CERT: should contain a `gnutls_x509_cert_t` structure

BUF: a pointer to a structure to hold the name (may be null)

SIZEOF_BUF: initially holds the size of `buf`

This function will copy the name of the Certificate issuer in the

provided buffer. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253. The output string will be ASCII or UTF-8 encoded, depending on the certificate data.

If `buf` is null then only the size will be filled.

Returns: GNUTLS_E_SHORT_MEMORY_BUFFER if the provided buffer is not long enough, and in that case the *sizeof_buf* will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_issuer

-- Function: int gnutls_x509_cert_get_issuer (gnutls_x509_cert_t CERT,
gnutls_x509_dn_t * DN)

CERT: should contain a `gnutls_x509_cert_t` structure

DN: output variable with pointer to opaque DN

Return the Certificate's Issuer DN as an opaque data type. You may use `gnutls_x509_dn_get_rdn_ava()` to decode the DN.

Note that `dn` should be treated as constant. Because points into the `cert` object, you may not deallocate `cert` and continue to access `dn`.

Returns: Returns 0 on success, or an error code.

gnutls_x509_cert_get_key_id

-- Function: int gnutls_x509_cert_get_key_id (gnutls_x509_cert_t CRT,
unsigned int FLAGS, unsigned char * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)

CRT: Holds the certificate

FLAGS: should be 0 for now

OUTPUT_DATA: will contain the key ID

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will return a unique ID that depends on the public key parameters. This ID can be used in checking whether a certificate corresponds to the given private key.

If the buffer provided is not long enough to hold the output, then

*output_data_size is updated and GNUTLS_E_SHORT_MEMORY_BUFFER will be returned. The output will normally be a SHA-1 hash output, which is 20 bytes.

Return value: In case of failure a negative value will be returned, and 0 on success.

gnutls_x509_cert_get_key_purpose_oid

-- Function: int gnutls_x509_cert_get_key_purpose_oid
(gnutls_x509_cert_t CERT, int INDX, void * OID, size_t *
SIZEOF_OID, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

INDX: This specifies which OID to return. Use zero to get the first one.

OID: a pointer to a buffer to hold the OID (may be null)

SIZEOF_OID: initially holds the size of `oid'

CRITICAL: output flag to indicate criticality of extension

This function will extract the key purpose OIDs of the Certificate specified by the given index. These are stored in the Extended Key Usage extension (2.5.29.37) See the GNUTLS_KP_* definitions for human readable names.

If `oid' is null then only the size will be filled.

Returns: `GNUTLS_E_SHORT_MEMORY_BUFFER' if the provided buffer is not long enough, and in that case the *sizeof_oid will be updated with the required size. On success 0 is returned.

gnutls_x509_cert_get_key_usage

-- Function: int gnutls_x509_cert_get_key_usage (gnutls_x509_cert_t
CERT, unsigned int * KEY_USAGE, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

KEY_USAGE: where the key usage bits will be stored

CRITICAL: will be non zero if the extension is marked as critical

This function will return certificate's key usage, by reading the keyUsage X.509 extension (2.5.29.15). The key usage value will

ORed values of the: `GNUTLS_KEY_DIGITAL_SIGNATURE`,
`GNUTLS_KEY_NON_REPUDIATION`, `GNUTLS_KEY_KEY_ENCIPHERMENT`,
`GNUTLS_KEY_DATA_ENCIPHERMENT`, `GNUTLS_KEY_KEY_AGREEMENT`,
`GNUTLS_KEY_KEY_CERT_SIGN`, `GNUTLS_KEY_CRL_SIGN`,
`GNUTLS_KEY_ENCIPHER_ONLY`, `GNUTLS_KEY_DECIPHER_ONLY`.

Returns: the certificate key usage, or a negative value in case of parsing error. If the certificate does not contain the keyUsage extension `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned.

gnutls_x509_cert_get_pk_algorithm

-- Function: int gnutls_x509_cert_get_pk_algorithm (gnutls_x509_cert_t
CERT, unsigned int * BITS)
CERT: should contain a `gnutls_x509_cert_t` structure

BITS: if bits is non null it will hold the size of the parameters'
in bits

This function will return the public key algorithm of an X.509
certificate.

If bits is non null, it should have enough size to hold the
parameters size in bits. For RSA the bits returned is the modulus.
For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on
success, or a negative value on error.

gnutls_x509_cert_get_pk_dsa_raw

-- Function: int gnutls_x509_cert_get_pk_dsa_raw (gnutls_x509_cert_t
CERT, gnutls_datum_t * P, gnutls_datum_t * Q, gnutls_datum_t *
G, gnutls_datum_t * Y)
CERT: Holds the certificate

P: will hold the p

Q: will hold the q

G: will hold the g

Y: will hold the y

This function will export the DSA public key's parameters found in

the given certificate. The new parameters will be allocated using
'gnutls_malloc()' and will be stored in the appropriate datum.

Returns: 'GNUTLS_E_SUCCESS' on success, otherwise an error.

gnutls_x509_cert_get_pk_rsa_raw

-- Function: int gnutls_x509_cert_get_pk_rsa_raw (gnutls_x509_cert_t
CERT, gnutls_datum_t * M, gnutls_datum_t * E)

CERT: Holds the certificate

M: will hold the modulus

E: will hold the public exponent

This function will export the RSA public key's parameters found in
the given structure. The new parameters will be allocated using
'gnutls_malloc()' and will be stored in the appropriate datum.

Returns: 'GNUTLS_E_SUCCESS' on success, otherwise an error.

gnutls_x509_cert_get_proxy

-- Function: int gnutls_x509_cert_get_proxy (gnutls_x509_cert_t CERT,
unsigned int * CRITICAL, int * PATHLEN, char **
POLICYLANGUAGE, char ** POLICY, size_t * SIZEOF_POLICY)

CERT: should contain a 'gnutls_x509_cert_t' structure

CRITICAL: will be non zero if the extension is marked as critical

PATHLEN: pointer to output integer indicating path length (may be
NULL), non-negative values indicate a present pCPathLenConstraint
field and the actual value, -1 indicate that the field is absent.

POLICYLANGUAGE: output variable with OID of policy language

POLICY: output variable with policy data

SIZEOF_POLICY: output variable size of policy data

This function will get information from a proxy certificate. It
reads the ProxyCertInfo X.509 extension (1.3.6.1.5.5.7.1.14).

Returns: On success, 'GNUTLS_E_SUCCESS' (zero) is returned,
otherwise an error code is returned.

gnutls_x509_cert_get_raw_dn

-- Function: int gnutls_x509_cert_get_raw_dn (gnutls_x509_cert_t CERT,
gnutls_datum_t * START)

CERT: should contain a `gnutls_x509_cert_t' structure

START: will hold the starting point of the DN

This function will return a pointer to the DER encoded DN structure and the length.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value. or a negative value on error.

gnutls_x509_cert_get_raw_issuer_dn

-- Function: int gnutls_x509_cert_get_raw_issuer_dn (gnutls_x509_cert_t
CERT, gnutls_datum_t * START)

CERT: should contain a `gnutls_x509_cert_t' structure

START: will hold the starting point of the DN

This function will return a pointer to the DER encoded DN structure and the length.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value. or a negative value on error.

gnutls_x509_cert_get_serial

-- Function: int gnutls_x509_cert_get_serial (gnutls_x509_cert_t CERT,
void * RESULT, size_t * RESULT_SIZE)

CERT: should contain a `gnutls_x509_cert_t' structure

RESULT: The place where the serial number will be copied

RESULT_SIZE: Holds the size of the result field.

This function will return the X.509 certificate's serial number. This is obtained by the X509 Certificate serialNumber field. Serial is not always a 32 or 64bit number. Some CAs use large serial numbers, thus it may be wise to handle it as something opaque.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a

negative error value.and a negative value in case of an error.

gnutls_x509_cert_get_signature_algorithm

-- Function: int gnutls_x509_cert_get_signature_algorithm
(gnutls_x509_cert_t CERT)
CERT: should contain a `gnutls_x509_cert_t' structure

This function will return a value of the `gnutls_sign_algorithm_t'
enumeration that is the signature algorithm.

Returns: a `gnutls_sign_algorithm_t' value, or a negative value
on error.

gnutls_x509_cert_get_signature

-- Function: int gnutls_x509_cert_get_signature (gnutls_x509_cert_t
CERT, char * SIG, size_t * SIZEOF_SIG)
CERT: should contain a `gnutls_x509_cert_t' structure

SIG: a pointer where the signature part will be copied (may be
null).

SIZEOF_SIG: initially holds the size of `sig'

This function will extract the signature field of a certificate.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value. and a negative value on error.

gnutls_x509_cert_get_subject_alt_name2

-- Function: int gnutls_x509_cert_get_subject_alt_name2
(gnutls_x509_cert_t CERT, unsigned int SEQ, void * RET, size_t
* RET_SIZE, unsigned int * RET_TYPE, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

SEQ: specifies the sequence number of the alt name (0 for the
first one, 1 for the second etc.)

RET: is the place where the alternative name will be copied to

RET_SIZE: holds the size of ret.

RET_TYPE: holds the type of the alternative name (one of

gnutls_x509_subject_alt_name_t).

CRITICAL: will be non zero if the extension is marked as critical (may be null)

This function will return the alternative names, contained in the given certificate. It is the same as ``gnutls_x509_cert_get_subject_alt_name()`` except for the fact that it will return the type of the alternative name in ``ret_type`` even if the function fails for some reason (i.e. the buffer provided is not enough).

Returns: the alternative subject name type on success, one of the enumerated ``gnutls_x509_subject_alt_name_t``. It will return ``GNUTLS_E_SHORT_MEMORY_BUFFER`` if ``ret_size`` is not large enough to hold the value. In that case ``ret_size`` will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number then ``GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE`` is returned.

gnutls_x509_cert_get_subject_alt_name

-- Function: int gnutls_x509_cert_get_subject_alt_name
(gnutls_x509_cert_t CERT, unsigned int SEQ, void * RET, size_t
* RET_SIZE, unsigned int * CRITICAL)
CERT: should contain a ``gnutls_x509_cert_t`` structure

SEQ: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

RET: is the place where the alternative name will be copied to

RET_SIZE: holds the size of ret.

CRITICAL: will be non zero if the extension is marked as critical (may be null)

This function will return the alternative names, contained in the given certificate.

This is specified in X509v3 Certificate Extensions. GNUTLS will return the Alternative name (2.5.29.17), or a negative error code.

When the SAN type is otherName, it will extract the data in the otherName's value field, and ``GNUTLS_SAN_OTHERNAME`` is returned.

You may use ``gnutls_x509_cert_get_subject_alt_othername_oid()`` to get the corresponding OID and the "virtual" SAN types (e.g.,

`GNUTLS_SAN_OTHERNAME_XMPP').

If an otherName OID is known, the data will be decoded. Otherwise the returned data will be DER encoded, and you will have to decode it yourself. Currently, only the RFC 3920 id-on-xmppAddr SAN is recognized.

**Returns:* the alternative subject name type on success, one of the enumerated `gnutls_x509_subject_alt_name_t'. It will return `GNUTLS_E_SHORT_MEMORY_BUFFER' if `ret_size' is not large enough to hold the value. In that case `ret_size' will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE' is returned.

gnutls_x509_cert_get_subject_alt_othername_oid

-- Function: int gnutls_x509_cert_get_subject_alt_othername_oid
(gnutls_x509_cert_t CERT, unsigned int SEQ, void * RET, size_t
* RET_SIZE)

CERT: should contain a `gnutls_x509_cert_t' structure

SEQ: specifies the sequence number of the alt name (0 for the first one, 1 for the second etc.)

RET: is the place where the otherName OID will be copied to

RET_SIZE: holds the size of ret.

This function will extract the type OID of an otherName Subject Alternative Name, contained in the given certificate, and return the type as an enumerated element.

This function is only useful if
`gnutls_x509_cert_get_subject_alt_name()' returned
`GNUTLS_SAN_OTHERNAME'.

**Returns:* the alternative subject name type on success, one of the enumerated gnutls_x509_subject_alt_name_t. For supported OIDs, it will return one of the virtual (GNUTLS_SAN_OTHERNAME_*) types, e.g. `GNUTLS_SAN_OTHERNAME_XMPP', and `GNUTLS_SAN_OTHERNAME' for unknown OIDs. It will return `GNUTLS_E_SHORT_MEMORY_BUFFER' if `ret_size' is not large enough to hold the value. In that case `ret_size' will be updated with the required size. If the certificate does not have an Alternative name with the specified sequence number and with the otherName type then `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE' is returned.

gnutls_x509_cert_get_subject_key_id

-- Function: int gnutls_x509_cert_get_subject_key_id (gnutls_x509_cert_t
CERT, void * RET, size_t * RET_SIZE, unsigned int * CRITICAL)
CERT: should contain a `gnutls_x509_cert_t' structure

RET: The place where the identifier will be copied

RET_SIZE: Holds the size of the result field.

CRITICAL: will be non zero if the extension is marked as critical
(may be null)

This function will return the X.509v3 certificate's subject key
identifier. This is obtained by the X.509 Subject Key identifier
extension field (2.5.29.14).

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value and a negative value in case of an error.

gnutls_x509_cert_get_subject

-- Function: int gnutls_x509_cert_get_subject (gnutls_x509_cert_t CERT,
gnutls_x509_dn_t * DN)
CERT: should contain a `gnutls_x509_cert_t' structure

DN: output variable with pointer to opaque DN.

Return the Certificate's Subject DN as an opaque data type. You
may use `gnutls_x509_dn_get_rdn_ava()' to decode the DN.

Note that `dn' should be treated as constant. Because points into
the `cert' object, you may not deallocate `cert' and continue to
access `dn'.

Returns: Returns 0 on success, or an error code.

gnutls_x509_cert_get_verify_algorithm

-- Function: int gnutls_x509_cert_get_verify_algorithm
(gnutls_x509_cert_t CRT, const gnutls_datum_t * SIGNATURE,
gnutls_digest_algorithm_t * HASH)

CRT: Holds the certificate

SIGNATURE: contains the signature

HASH: The result of the call with the hash algorithm used for signature

This function will read the certificate and the signed data to determine the hash algorithm used to generate the signature.

Returns: the 0 if the hash algorithm is found. A negative value is returned on error.

Since: 2.8.0

gnutls_x509_cert_get_version

-- Function: int gnutls_x509_cert_get_version (gnutls_x509_cert_t CERT)
CERT: should contain a `gnutls_x509_cert_t' structure

This function will return the version of the specified Certificate.

Returns: version of certificate, or a negative value on error.

gnutls_x509_cert_import

-- Function: int gnutls_x509_cert_import (gnutls_x509_cert_t CERT, const
gnutls_datum_t * DATA, gnutls_x509_cert_fmt_t FORMAT)
CERT: The structure to store the parsed certificate.

DATA: The DER or PEM encoded certificate.

FORMAT: One of DER or PEM

This function will convert the given DER or PEM encoded Certificate to the native gnutls_x509_cert_t format. The output will be stored in `cert'.

If the Certificate is PEM encoded it should have a header of "X509 CERTIFICATE", or "CERTIFICATE".

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_cert_init

-- Function: int gnutls_x509_cert_init (gnutls_x509_cert_t * CERT)

CERT: The structure to be initialized

This function will initialize an X.509 certificate structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_list_import

-- Function: int gnutls_x509_cert_list_import (gnutls_x509_cert_t *
CERTS, unsigned int * CERT_MAX, const gnutls_datum_t * DATA,
gnutls_x509_cert_fmt_t FORMAT, unsigned int FLAGS)

CERTS: The structures to store the parsed certificate. Must not be initialized.

CERT_MAX: Initially must hold the maximum number of certs. It will be updated with the number of certs available.

DATA: The PEM encoded certificate.

FORMAT: One of DER or PEM.

FLAGS: must be zero or an OR'd sequence of gnutls_certificate_import_flags.

This function will convert the given PEM encoded certificate list to the native gnutls_x509_cert_t format. The output will be stored in `certs`. They will be automatically initialized.

If the Certificate is PEM encoded it should have a header of "X509 CERTIFICATE", or "CERTIFICATE".

Returns: the number of certificates read or a negative error value.

gnutls_x509_cert_list_verify

-- Function: int gnutls_x509_cert_list_verify (const gnutls_x509_cert_t *
CERT_LIST, int CERT_LIST_LENGTH, const gnutls_x509_cert_t *
CA_LIST, int CA_LIST_LENGTH, const gnutls_x509_crl_t *
CRL_LIST, int CRL_LIST_LENGTH, unsigned int FLAGS, unsigned
int * VERIFY)

CERT_LIST: is the certificate list to be verified

CERT_LIST_LENGTH: holds the number of certificate in cert_list

CA_LIST: is the CA list which will be used in verification

CA_LIST_LENGTH: holds the number of CA certificate in CA_list

CRL_LIST: holds a list of CRLs.

CRL_LIST_LENGTH: the length of CRL list.

FLAGS: Flags that may be used to change the verification algorithm. Use OR of the gnutls_certificate_verify_flags enumerations.

VERIFY: will hold the certificate verification output.

This function will try to verify the given certificate list and return its status. If no flags are specified (0), this function will use the basicConstraints (2.5.29.19) PKIX extension. This means that only a certificate authority is allowed to sign a certificate.

You must also check the peer's name in order to check if the verified certificate belongs to the actual peer.

The certificate verification output will be put in `verify' and will be one or more of the gnutls_certificate_status_t enumerated elements bitwise or'd. For a more detailed verification status use `gnutls_x509 crt_verify()' per list element.

GNUTLS_CERT_INVALID: the certificate chain is not valid.

GNUTLS_CERT_REVOKED: a certificate in the chain has been revoked.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.and a negative value in case of an error.

gnutls_x509_crt_print

-- Function: int gnutls_x509_crt_print (gnutls_x509_crt_t CERT,
gnutls_certificate_print_formats_t FORMAT, gnutls_datum_t *
OUT)

CERT: The structure to be printed

FORMAT: Indicate the format to use

OUT: Newly allocated datum with zero terminated string.

This function will pretty print a X.509 certificate, suitable for

display to a human.

If the format is `GNUTLS_CRT_PRINT_FULL` then all fields of the certificate will be output, on multiple lines. The `GNUTLS_CRT_PRINT_ONELINE` format will generate one line with some selected fields, which is useful for logging purposes.

The output `out` needs to be deallocate using `gnutls_free()`.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_x509_cert_set_activation_time`

-- Function: int gnutls_x509_cert_set_activation_time
(gnutls_x509_cert_t CERT, time_t ACT_TIME)
CERT: a certificate of type `gnutls_x509_cert_t`

ACT_TIME: The actual time

This function will set the time this Certificate was or will be activated.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_x509_cert_set_authority_key_id`

-- Function: int gnutls_x509_cert_set_authority_key_id
(gnutls_x509_cert_t CERT, const void * ID, size_t ID_SIZE)
CERT: a certificate of type `gnutls_x509_cert_t`

ID: The key ID

ID_SIZE: Holds the size of the serial field.

This function will set the X.509 certificate's authority key ID extension. Only the keyIdentifier field can be set with this function.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_x509_cert_set_basic_constraints`

-- Function: int gnutls_x509_cert_set_basic_constraints

(gnutls_x509_cert_t CRT, unsigned int CA, int
PATHLENCONSTRAINT)

CRT: a certificate of type `gnutls_x509_cert_t'

CA: true(1) or false(0). Depending on the Certificate authority
status.

PATHLENCONSTRAINT: non-negative values indicate maximum length of
path, and negative values indicate that the pathLenConstraints
field should not be present.

This function will set the basicConstraints certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_cert_set_ca_status

-- Function: int gnutls_x509_cert_set_ca_status (gnutls_x509_cert_t CRT,
unsigned int CA)

CRT: a certificate of type `gnutls_x509_cert_t'

CA: true(1) or false(0). Depending on the Certificate authority
status.

This function will set the basicConstraints certificate extension.

Use `gnutls_x509_cert_set_basic_constraints()' if you want to
control the pathLenConstraint field too.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_cert_set_crl_dist_points2

-- Function: int gnutls_x509_cert_set_crl_dist_points2
(gnutls_x509_cert_t CRT, gnutls_x509_subject_alt_name_t TYPE,
const void * DATA, unsigned int DATA_SIZE, unsigned int
REASON_FLAGS)

CRT: a certificate of type `gnutls_x509_cert_t'

TYPE: is one of the gnutls_x509_subject_alt_name_t enumerations

DATA: The data to be set

DATA_SIZE: The data size

REASON_FLAGS: revocation reasons

This function will set the CRL distribution points certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.6.0

gnutls_x509_cert_set_crl_dist_points

-- Function: int gnutls_x509_cert_set_crl_dist_points
(gnutls_x509_cert_t CRT, gnutls_x509_subject_alt_name_t TYPE,
const void * DATA_STRING, unsigned int REASON_FLAGS)
CRT: a certificate of type `gnutls_x509_cert_t'

TYPE: is one of the gnutls_x509_subject_alt_name_t enumerations

DATA_STRING: The data to be set

REASON_FLAGS: revocation reasons

This function will set the CRL distribution points certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_crq_extensions

-- Function: int gnutls_x509_cert_set_crq_extensions (gnutls_x509_cert_t
CRT, gnutls_x509_crq_t CRQ)
CRT: a certificate of type `gnutls_x509_cert_t'

CRQ: holds a certificate request

This function will set extensions from the given request to the certificate.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.8.0

gnutls_x509_cert_set_crq

-- Function: int gnutls_x509_cert_set_crq (gnutls_x509_cert_t CRT,
gnutls_x509_crq_t CRQ)
CRT: a certificate of type `gnutls_x509_cert_t'

CRQ: holds a certificate request

This function will set the name and public parameters as well as the extensions from the given certificate request to the certificate. Only RSA keys are currently supported.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_cert_set_dn_by_oid

-- Function: int gnutls_x509_cert_set_dn_by_oid (gnutls_x509_cert_t CRT,
const char * OID, unsigned int RAW_FLAG, const void * NAME,
unsigned int SIZEOF_NAME)
CRT: a certificate of type `gnutls_x509_cert_t'

OID: holds an Object Identifier in a null terminated string

RAW_FLAG: must be 0, or 1 if the data are DER encoded

NAME: a pointer to the name

SIZEOF_NAME: holds the size of `name'

This function will set the part of the name of the Certificate subject, specified by the given OID. The input string should be ASCII or UTF-8 encoded.

Some helper macros with popular OIDs can be found in gnutls/x509.h. With this function you can only set the known OIDs. You can test for known OIDs using `gnutls_x509_dn_oid_known()'. For OIDs that are not known (by gnutls) you should properly DER encode your data, and call this function with `raw_flag' set.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_cert_set_expiration_time

-- Function: int gnutls_x509_cert_set_expiration_time

(gnutls_x509_cert_t CERT, time_t EXP_TIME)

CERT: a certificate of type `gnutls_x509_cert_t'

EXP_TIME: The actual time

This function will set the time this Certificate will expire.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_cert_set_extension_by_oid

-- Function: int gnutls_x509_cert_set_extension_by_oid

(gnutls_x509_cert_t CERT, const char * OID, const void * BUF,
size_t SIZEOF_BUF, unsigned int CRITICAL)

CERT: a certificate of type `gnutls_x509_cert_t'

OID: holds an Object Identified in null terminated string

BUF: a pointer to a DER encoded data

SIZEOF_BUF: holds the size of `buf'

CRITICAL: should be non zero if the extension is to be marked as critical

This function will set an the extension, by the specified OID, in the certificate. The extension data should be binary data DER encoded.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.and a negative value in case of an error.

gnutls_x509_cert_set_issuer_dn_by_oid

-- Function: int gnutls_x509_cert_set_issuer_dn_by_oid

(gnutls_x509_cert_t CERT, const char * OID, unsigned int
RAW_FLAG, const void * NAME, unsigned int SIZEOF_NAME)

CERT: a certificate of type `gnutls_x509_cert_t'

OID: holds an Object Identifier in a null terminated string

RAW_FLAG: must be 0, or 1 if the data are DER encoded

NAME: a pointer to the name

SIZEOF_NAME: holds the size of `name`

This function will set the part of the name of the Certificate issuer, specified by the given OID. The input string should be ASCII or UTF-8 encoded.

Some helper macros with popular OIDs can be found in gnutls/x509.h
With this function you can only set the known OIDs. You can test for known OIDs using `gnutls_x509_dn_oid_known()`. For OIDs that are not known (by gnutls) you should properly DER encode your data, and call this function with `raw_flag` set.

Normally you do not need to call this function, since the signing operation will copy the signer's name as the issuer of the certificate.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_key_purpose_oid

-- Function: int gnutls_x509_cert_set_key_purpose_oid
(gnutls_x509_cert_t CERT, const void * OID, unsigned int
CRITICAL)
CERT: a certificate of type `gnutls_x509_cert_t`

OID: a pointer to a null terminated string that holds the OID

CRITICAL: Whether this extension will be critical or not

This function will set the key purpose OIDs of the Certificate.
These are stored in the Extended Key Usage extension (2.5.29.37)
See the GNUTLS_KP_* definitions for human readable names.

Subsequent calls to this function will append OIDs to the OID list.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned,
otherwise an error code is returned.

gnutls_x509_cert_set_key_usage

-- Function: int gnutls_x509_cert_set_key_usage (gnutls_x509_cert_t CERT,
unsigned int USAGE)
CERT: a certificate of type `gnutls_x509_cert_t`

USAGE: an ORed sequence of the GNUTLS_KEY_* elements.

This function will set the keyUsage certificate extension.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_key

-- Function: int gnutls_x509_cert_set_key (gnutls_x509_cert_t CRT,
gnutls_x509_privkey_t KEY)
CRT: a certificate of type `gnutls_x509_cert_t`

KEY: holds a private key

This function will set the public parameters from the given private key to the certificate. Only RSA keys are currently supported.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_proxy_dn

-- Function: int gnutls_x509_cert_set_proxy_dn (gnutls_x509_cert_t CRT,
gnutls_x509_cert_t EECRT, unsigned int RAW_FLAG, const void *
NAME, unsigned int SIZEOF_NAME)
CRT: a gnutls_x509_cert_t structure with the new proxy cert

EECRT: the end entity certificate that will be issuing the proxy

RAW_FLAG: must be 0, or 1 if the CN is DER encoded

NAME: a pointer to the CN name, may be NULL (but MUST then be added later)

SIZEOF_NAME: holds the size of `name`

This function will set the subject in `crt` to the end entity's `eecrt` subject name, and add a single Common Name component `name` of size `sizeof_name`. This corresponds to the required proxy certificate naming style. Note that if `name` is `NULL`, you MUST set it later by using `gnutls_x509_cert_set_dn_by_oid()` or similar.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_cert_set_proxy

-- Function: int gnutls_x509_cert_set_proxy (gnutls_x509_cert_t CERT, int
PATHLENCONSTRAINT, const char * POLICYLANGUAGE, const char *
POLICY, size_t SIZEOF_POLICY)
CERT: a certificate of type `gnutls_x509_cert_t'

PATHLENCONSTRAINT: non-negative values indicate maximum length of
path, and negative values indicate that the pathLenConstraints
field should not be present.

POLICYLANGUAGE: OID describing the language of `policy'.

POLICY: opaque byte array with policy language, can be `NULL'

SIZEOF_POLICY: size of `policy'.

This function will set the proxyCertInfo extension.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_cert_set_serial

-- Function: int gnutls_x509_cert_set_serial (gnutls_x509_cert_t CERT,
const void * SERIAL, size_t SERIAL_SIZE)
CERT: a certificate of type `gnutls_x509_cert_t'

SERIAL: The serial number

SERIAL_SIZE: Holds the size of the serial field.

This function will set the X.509 certificate's serial number.
Serial is not always a 32 or 64bit number. Some CAs use large
serial numbers, thus it may be wise to handle it as something
opaque.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a
negative error value.

gnutls_x509_cert_set_subject_alt_name

-- Function: int gnutls_x509_cert_set_subject_alt_name
(gnutls_x509_cert_t CERT, gnutls_x509_subject_alt_name_t TYPE,

const void * DATA, unsigned int DATA_SIZE, unsigned int FLAGS)
CRT: a certificate of type `gnutls_x509 crt_t'

TYPE: is one of the gnutls_x509_subject_alt_name_t enumerations

DATA: The data to be set

DATA_SIZE: The size of data to be set

FLAGS: GNUTLS_FSAN_SET to clear previous data or
GNUTLS_FSAN_APPEND to append.

This function will set the subject alternative name certificate extension. It can set the following types:

&GNUTLS_SAN_DNSNAME: as a text string

&GNUTLS_SAN_RFC822NAME: as a text string

&GNUTLS_SAN_URI: as a text string

&GNUTLS_SAN_IPADDRESS: as a binary IP address (4 or 16 bytes)

Other values can be set as binary values with the proper DER encoding.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

Since: 2.6.0

gnutls_x509_crt_set_subject_alternative_name

-- Function: int gnutls_x509_crt_set_subject_alternative_name
(gnutls_x509_crt_t CRT, gnutls_x509_subject_alt_name_t TYPE,
const char * DATA_STRING)
CRT: a certificate of type `gnutls_x509 crt_t'

TYPE: is one of the gnutls_x509_subject_alt_name_t enumerations

DATA_STRING: The data to be set, a zero terminated string

This function will set the subject alternative name certificate extension. This function assumes that data can be expressed as a null terminated string.

The name of the function is unfortunate since it is inconsistent

with ``gnutls_x509_cert_get_subject_alt_name()`'.

***Returns:** * On success, ``GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

`gnutls_x509_cert_set_subject_key_id`

-- Function: `int gnutls_x509_cert_set_subject_key_id (gnutls_x509_cert_t CERT, const void * ID, size_t ID_SIZE)`
CERT: a certificate of type ``gnutls_x509_cert_t'`

ID: The key ID

ID_SIZE: Holds the size of the serial field.

This function will set the X.509 certificate's subject key ID extension.

***Returns:** * On success, ``GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

`gnutls_x509_cert_set_version`

-- Function: `int gnutls_x509_cert_set_version (gnutls_x509_cert_t CRT, unsigned int VERSION)`
CRT: a certificate of type ``gnutls_x509_cert_t'`

VERSION: holds the version number. For X.509v1 certificates must be 1.

This function will set the version of the certificate. This must be one for X.509 version 1, and so on. Plain certificates without extensions must have version set to one.

To create well-formed certificates, you must specify version 3 if you use any certificate extensions. Extensions are created by functions such as ``gnutls_x509_cert_set_subject_alt_name()`' or ``gnutls_x509_cert_set_key_usage()`'.

***Returns:** * On success, ``GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

`gnutls_x509_cert_sign2`

-- Function: `int gnutls_x509_cert_sign2 (gnutls_x509_cert_t CRT,`

gnutls_x509_cert_t ISSUER, gnutls_x509_privkey_t ISSUER_KEY,
gnutls_digest_algorithm_t DIG, unsigned int FLAGS)

CRT: a certificate of type `gnutls_x509_cert_t'

ISSUER: is the certificate of the certificate issuer

ISSUER_KEY: holds the issuer's private key

DIG: The message digest to use, `GNUTLS_DIG_SHA1' is a safe choice

FLAGS: must be 0

This function will sign the certificate with the issuer's private key, and will copy the issuer's information into the certificate.

This must be the last step in a certificate generation since all the previously set parameters are now signed.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_cert_sign

-- Function: int gnutls_x509_cert_sign (gnutls_x509_cert_t CRT,
gnutls_x509_cert_t ISSUER, gnutls_x509_privkey_t ISSUER_KEY)

CRT: a certificate of type `gnutls_x509_cert_t'

ISSUER: is the certificate of the certificate issuer

ISSUER_KEY: holds the issuer's private key

This function is the same as `gnutls_x509_cert_sign2()' with no flags, and SHA1 as the hash algorithm.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_x509_cert_verify_data

-- Function: int gnutls_x509_cert_verify_data (gnutls_x509_cert_t CRT,
unsigned int FLAGS, const gnutls_datum_t * DATA, const
gnutls_datum_t * SIGNATURE)

CRT: Holds the certificate

FLAGS: should be 0 for now

DATA: holds the data to be signed

SIGNATURE: contains the signature

This function will verify the given signed data, using the parameters from the certificate.

Returns: In case of a verification failure 0 is returned, and 1 on success.

gnutls_x509_cert_verify_hash

-- Function: int gnutls_x509_cert_verify_hash (gnutls_x509_cert_t CERT, unsigned int FLAGS, const gnutls_datum_t * HASH, const gnutls_datum_t * SIGNATURE)

CERT: Holds the certificate

FLAGS: should be 0 for now

HASH: holds the hash digest to be verified

SIGNATURE: contains the signature

This function will verify the given signed digest, using the parameters from the certificate.

Returns: In case of a verification failure 0 is returned, and 1 on success.

gnutls_x509_cert_verify

-- Function: int gnutls_x509_cert_verify (gnutls_x509_cert_t CERT, const gnutls_x509_cert_t * CA_LIST, int CA_LIST_LENGTH, unsigned int FLAGS, unsigned int * VERIFY)

CERT: is the certificate to be verified

CA_LIST: is one certificate that is considered to be trusted one

CA_LIST_LENGTH: holds the number of CA certificate in CA_list

FLAGS: Flags that may be used to change the verification algorithm. Use OR of the gnutls_certificate_verify_flags enumerations.

VERIFY: will hold the certificate verification output.

This function will try to verify the given certificate and return its status. The verification output in this functions cannot be GNUTLS_CERT_NOT_VALID.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.and a negative value in case of an error.

gnutls_x509_dn_deinit

-- Function: void gnutls_x509_dn_deinit (gnutls_x509_dn_t DN)
DN: a DN opaque object pointer.

This function deallocates the DN object as returned by `gnutls_x509_dn_import()`.

Since: 2.4.0

gnutls_x509_dn_export

-- Function: int gnutls_x509_dn_export (gnutls_x509_dn_t DN,
gnutls_x509_crt_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)
DN: Holds the opaque DN object

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a DN PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the DN to DER or PEM format.

If the buffer provided is not long enough to hold the output, then *`output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN NAME".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_dn_get_rdn_ava

-- Function: int gnutls_x509_dn_get_rdn_ava (gnutls_x509_dn_t DN, int IRDN, int IAVA, gnutls_x509_ava_st * AVA)

DN: input variable with opaque DN pointer

IRDN: index of RDN

IAVA: index of AVA.

AVA: Pointer to structure which will hold output information.

Get pointers to data within the DN.

Note that `ava` will contain pointers into the `dn` structure, so you should not modify any data or deallocate it. Note also that the DN in turn points into the original certificate structure, and thus you may not deallocate the certificate and continue to access `dn`.

Returns: Returns 0 on success, or an error code.

gnutls_x509_dn_import

-- Function: int gnutls_x509_dn_import (gnutls_x509_dn_t DN, const gnutls_datum_t * DATA)

DN: the structure that will hold the imported DN

DATA: should contain a DER encoded RDN sequence

This function parses an RDN sequence and stores the result to a `gnutls_x509_dn_t` structure. The structure must have been initialized with `gnutls_x509_dn_init()`. You may use `gnutls_x509_dn_get_rdn_ava()` to decode the DN.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

Since: 2.4.0

gnutls_x509_dn_init

-- Function: int gnutls_x509_dn_init (gnutls_x509_dn_t * DN)

DN: the object to be initialized

This function initializes a `gnutls_x509_dn_t` structure.

The object returned must be deallocated using

``gnutls_x509_dn_deinit()'`.

**Returns:* On success, ``GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

**Since:* 2.4.0

`gnutls_x509_dn_oid_known`

-- Function: `int gnutls_x509_dn_oid_known (const char * OID)`

OID: holds an Object Identifier in a null terminated string

This function will inform about known DN OIDs. This is useful since functions like ``gnutls_x509_cert_set_dn_by_oid()'` use the information on known OIDs to properly encode their input. Object Identifiers that are not known are not encoded by these functions, and their input is stored directly into the ASN.1 structure. In that case of unknown OIDs, you have the responsibility of DER encoding your data.

**Returns:* 1 on known OIDs and 0 otherwise.

`gnutls_x509_privkey_cpy`

-- Function: `int gnutls_x509_privkey_cpy (gnutls_x509_privkey_t DST, gnutls_x509_privkey_t SRC)`

DST: The destination key, which should be initialized.

SRC: The source key

This function will copy a private key from source to destination key.

**Returns:* On success, ``GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

`gnutls_x509_privkey_deinit`

-- Function: `void gnutls_x509_privkey_deinit (gnutls_x509_privkey_t KEY)`

KEY: The structure to be initialized

This function will deinitialize a private key structure.

`gnutls_x509_privkey_export_dsa_raw`

-- Function: int gnutls_x509_privkey_export_dsa_raw
(gnutls_x509_privkey_t KEY, gnutls_datum_t * P,
gnutls_datum_t * Q, gnutls_datum_t * G, gnutls_datum_t * Y,
gnutls_datum_t * X)

KEY: a structure that holds the DSA parameters

P: will hold the p

Q: will hold the q

G: will hold the g

Y: will hold the y

X: will hold the x

This function will export the DSA private key's parameters found in the given structure. The new parameters will be allocated using `gnutls_malloc()` and will be stored in the appropriate datum.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_export_pkcs8

-- Function: int gnutls_x509_privkey_export_pkcs8
(gnutls_x509_privkey_t KEY, gnutls_x509_crt_fmt_t FORMAT,
const char * PASSWORD, unsigned int FLAGS, void *
OUTPUT_DATA, size_t * OUTPUT_DATA_SIZE)

KEY: Holds the key

FORMAT: the format of output params. One of PEM or DER.

PASSWORD: the password that will be used to encrypt the key.

FLAGS: an ORed sequence of gnutls_pkcs_encrypt_flags_t

OUTPUT_DATA: will contain a private key PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the private key to a PKCS8 structure. Both RSA and DSA keys can be exported. For DSA keys we use PKCS `11` definitions. If the flags do not specify the encryption

cipher, then the default 3DES (PBES2) will be used.

The `password` can be either ASCII or UTF-8 in the default PBES2 encryption schemas, or ASCII for the PKCS12 schemas.

If the buffer provided is not long enough to hold the output, then `*output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN ENCRYPTED PRIVATE KEY" or "BEGIN PRIVATE KEY" if encryption is not used.

`*Return value:` In case of failure a negative value will be returned, and 0 on success.

`gnutls_x509_privkey_export_rsa_raw`

```
-- Function: int gnutls_x509_privkey_export_rsa_raw
(gnutls_x509_privkey_t KEY, gnutls_datum_t * M,
 gnutls_datum_t * E, gnutls_datum_t * D, gnutls_datum_t * P,
 gnutls_datum_t * Q, gnutls_datum_t * U)
KEY: a structure that holds the rsa parameters
```

M: will hold the modulus

E: will hold the public exponent

D: will hold the private exponent

P: will hold the first prime (p)

Q: will hold the second prime (q)

U: will hold the coefficient

This function will export the RSA private key's parameters found in the given structure. The new parameters will be allocated using ``gnutls_malloc()` and will be stored in the appropriate datum.

`*Returns:` On success, ``GNUTLS_E_SUCCESS'` is returned, otherwise a negative error value.

`gnutls_x509_privkey_export`

```
-- Function: int gnutls_x509_privkey_export (gnutls_x509_privkey_t
```

KEY, gnutls_x509_crt_fmt_t FORMAT, void * OUTPUT_DATA, size_t
* OUTPUT_DATA_SIZE)

KEY: Holds the key

FORMAT: the format of output params. One of PEM or DER.

OUTPUT_DATA: will contain a private key PEM or DER encoded

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will export the private key to a PKCS1 structure for RSA keys, or an integer sequence for DSA keys. The DSA keys are in the same format with the parameters used by openssl.

If the buffer provided is not long enough to hold the output, then *`output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

If the structure is PEM encoded, it will have a header of "BEGIN RSA PRIVATE KEY".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_fix

-- Function: int gnutls_x509_privkey_fix (gnutls_x509_privkey_t KEY)

KEY: Holds the key

This function will recalculate the secondary parameters in a key. In RSA keys, this can be the coefficient and exponent^{1,2}.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_generate

-- Function: int gnutls_x509_privkey_generate (gnutls_x509_privkey_t KEY, gnutls_pk_algorithm_t ALGO, unsigned int BITS, unsigned int FLAGS)

KEY: should contain a `gnutls_x509_privkey_t` structure

ALGO: is one of RSA or DSA.

BITS: the size of the modulus

FLAGS: unused for now. Must be 0.

This function will generate a random private key. Note that this function must be called on an empty private key.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_get_key_id

-- Function: int gnutls_x509_privkey_get_key_id (gnutls_x509_privkey_t
KEY, unsigned int FLAGS, unsigned char * OUTPUT_DATA, size_t
* OUTPUT_DATA_SIZE)

KEY: Holds the key

FLAGS: should be 0 for now

OUTPUT_DATA: will contain the key ID

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will return a unique ID that depends on the public key parameters. This ID can be used in checking whether a certificate corresponds to the given key.

If the buffer provided is not long enough to hold the output, then *`output_data_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned. The output will normally be a SHA-1 hash output, which is 20 bytes.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_get_pk_algorithm

-- Function: int gnutls_x509_privkey_get_pk_algorithm
(gnutls_x509_privkey_t KEY)
KEY: should contain a `gnutls_x509_privkey_t` structure

This function will return the public key algorithm of a private key.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

gnutls_x509_privkey_import_dsa_raw

-- Function: int gnutls_x509_privkey_import_dsa_raw
(gnutls_x509_privkey_t KEY, const gnutls_datum_t * P, const
gnutls_datum_t * Q, const gnutls_datum_t * G, const
gnutls_datum_t * Y, const gnutls_datum_t * X)

KEY: The structure to store the parsed key

P: holds the p

Q: holds the q

G: holds the g

Y: holds the y

X: holds the x

This function will convert the given DSA raw parameters to the native `gnutls_x509_privkey_t` format. The output will be stored in `key`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_import_pkcs8

-- Function: int gnutls_x509_privkey_import_pkcs8
(gnutls_x509_privkey_t KEY, const gnutls_datum_t * DATA,
gnutls_x509_crt_fmt_t FORMAT, const char * PASSWORD, unsigned
int FLAGS)

KEY: The structure to store the parsed key

DATA: The DER or PEM encoded key.

FORMAT: One of DER or PEM

PASSWORD: the password to decrypt the key (if it is encrypted).

FLAGS: 0 if encrypted or GNUTLS_PKCS_PLAIN if not encrypted.

This function will convert the given DER or PEM encoded PKCS8 2.0 encrypted key to the native gnutls_x509_privkey_t format. The output will be stored in `key`. Both RSA and DSA keys can be imported, and flags can only be used to indicate an unencrypted

key.

The `password` can be either ASCII or UTF-8 in the default PBES2 encryption schemas, or ASCII for the PKCS12 schemas.

If the Certificate is PEM encoded it should have a header of "ENCRYPTED PRIVATE KEY", or "PRIVATE KEY". You only need to specify the flags if the key is DER encoded, since in that case the encryption status cannot be auto-detected.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_import_rsa_raw

```
-- Function: int gnutls_x509_privkey_import_rsa_raw
(gnutls_x509_privkey_t KEY, const gnutls_datum_t * M, const
gnutls_datum_t * E, const gnutls_datum_t * D, const
gnutls_datum_t * P, const gnutls_datum_t * Q, const
gnutls_datum_t * U)
```

KEY: The structure to store the parsed key

M: holds the modulus

E: holds the public exponent

D: holds the private exponent

P: holds the first prime (p)

Q: holds the second prime (q)

U: holds the coefficient

This function will convert the given RSA raw parameters to the native `gnutls_x509_privkey_t` format. The output will be stored in `key`.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_import

```
-- Function: int gnutls_x509_privkey_import (gnutls_x509_privkey_t
KEY, const gnutls_datum_t * DATA, gnutls_x509_crt_fmt_t
FORMAT)
```

KEY: The structure to store the parsed key

DATA: The DER or PEM encoded certificate.

FORMAT: One of DER or PEM

This function will convert the given DER or PEM encoded key to the native `gnutls_x509_privkey_t` format. The output will be stored in `key`.

If the key is PEM encoded it should have a header of "RSA PRIVATE KEY", or "DSA PRIVATE KEY".

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_init

-- Function: int gnutls_x509_privkey_init (gnutls_x509_privkey_t * KEY)
KEY: The structure to be initialized

This function will initialize an private key structure.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_sign_data

-- Function: int gnutls_x509_privkey_sign_data (gnutls_x509_privkey_t
KEY, gnutls_digest_algorithm_t DIGEST, unsigned int FLAGS,
const gnutls_datum_t * DATA, void * SIGNATURE, size_t *
SIGNATURE_SIZE)

KEY: Holds the key

DIGEST: should be MD5 or SHA1

FLAGS: should be 0 for now

DATA: holds the data to be signed

SIGNATURE: will contain the signature

SIGNATURE_SIZE: holds the size of signature (and will be replaced
by the new size)

This function will sign the given data using a signature algorithm

supported by the private key. Signature algorithms are always used together with a hash functions. Different hash functions may be used for the RSA algorithm, but only SHA-1 for the DSA keys.

If the buffer provided is not long enough to hold the output, then *`signature_size` is updated and `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_sign_hash

-- Function: int gnutls_x509_privkey_sign_hash (gnutls_x509_privkey_t
KEY, const gnutls_datum_t * HASH, gnutls_datum_t * SIGNATURE)
KEY: Holds the key

HASH: holds the data to be signed

SIGNATURE: will contain newly allocated signature

This function will sign the given hash using the private key. Do not use this function directly unless you know what it is. Typical signing requires the data to be hashed and stored in special formats (e.g. BER Digest-Info for RSA).

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_x509_privkey_verify_data

-- Function: int gnutls_x509_privkey_verify_data
(gnutls_x509_privkey_t KEY, unsigned int FLAGS, const
gnutls_datum_t * DATA, const gnutls_datum_t * SIGNATURE)
KEY: Holds the key

FLAGS: should be 0 for now

DATA: holds the data to be signed

SIGNATURE: contains the signature

This function will verify the given signed data, using the parameters in the private key.

Returns: In case of a verification failure 0 is returned, and 1

on success.

gnutls_x509_rdn_get_by_oid

-- Function: int gnutls_x509_rdn_get_by_oid (const gnutls_datum_t *
IDN, const char * OID, int INDX, unsigned int RAW_FLAG, void
* BUF, size_t * SIZEOF_BUF)

IDN: should contain a DER encoded RDN sequence

OID: an Object Identifier

INDX: In case multiple same OIDs exist in the RDN indicates which
to send. Use 0 for the first one.

RAW_FLAG: If non zero then the raw DER data are returned.

BUF: a pointer to a structure to hold the peer's name

SIZEOF_BUF: holds the size of `buf`

This function will return the name of the given Object identifier,
of the RDN sequence. The name will be encoded using the rules
from RFC2253.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, or
`GNUTLS_E_SHORT_MEMORY_BUFFER` is returned and *`sizeof_buf` is
updated if the provided buffer is not long enough, otherwise a
negative error value.

gnutls_x509_rdn_get_oid

-- Function: int gnutls_x509_rdn_get_oid (const gnutls_datum_t * IDN,
int INDX, void * BUF, size_t * SIZEOF_BUF)

IDN: should contain a DER encoded RDN sequence

INDX: Indicates which OID to return. Use 0 for the first one.

BUF: a pointer to a structure to hold the peer's name OID

SIZEOF_BUF: holds the size of `buf`

This function will return the specified Object identifier, of the
RDN sequence.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, or
`GNUTLS_E_SHORT_MEMORY_BUFFER` is returned and *`sizeof_buf` is

updated if the provided buffer is not long enough, otherwise a negative error value.

Since: 2.4.0

gnutls_x509_rdn_get

-- Function: int gnutls_x509_rdn_get (const gnutls_datum_t * IDN, char * BUF, size_t * SIZEOF_BUF)

IDN: should contain a DER encoded RDN sequence

BUF: a pointer to a structure to hold the peer's name

SIZEOF_BUF: holds the size of `buf`

This function will return the name of the given RDN sequence. The name will be in the form "C=xxxx,O=yyyy,CN=zzzz" as described in RFC2253.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, or `GNUTLS_E_SHORT_MEMORY_BUFFER` is returned and *`sizeof_buf` is updated if the provided buffer is not long enough, otherwise a negative error value.

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9.3 GnuTLS-extra Functions

=====

These functions are only available in the GPLv3+ version of the library called `gnutls-extra`. The prototypes for this library lie in `gnutls/extra.h`.

gnutls_extra_check_version

-- Function: const char * gnutls_extra_check_version (const char * REQ_VERSION)

REQ_VERSION: version string to compare with, or `NULL`.

Check GnuTLS Extra Library version.

See `GNUTLS_EXTRA_VERSION` for a suitable `req_version` string.

Return value: Check that the version of the library is at

minimum the one given as a string in `req_version` and return the actual version string of the library; return `NULL` if the condition is not met. If `NULL` is passed to this function no check is done and only the version string is returned.

gnutls_global_init_extra

-- Function: int gnutls_global_init_extra (VOID)
This function initializes the global state of gnutls-extra library to defaults.

Note that `gnutls_global_init()` has to be called before this function. If this function is not called then the gnutls-extra library will not be usable.

This function is not thread safe, see the discussion for `gnutls_global_init()` on how to deal with that.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

File: gnutls.info, Node: OpenPGP functions, Next: TLS Inner Application (TLS/IA) functions, Prev: GnuTLS-extra functions, Up: Function reference

9.4 OpenPGP Functions

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The following functions are to be used for OpenPGP certificate handling. Their prototypes lie in `gnutls/openpgp.h`.

gnutls_certificate_set_openpgp_key_file2

-- Function: int gnutls_certificate_set_openpgp_key_file2
(gnutls_certificate_credentials_t RES, const char * CERTFILE,
const char * KEYFILE, const char * SUBKEY_ID,
gnutls_openpgp_cert_fmt_t FORMAT)
RES: the destination context to save the data.

CERTFILE: the file that contains the public key.

KEYFILE: the file that contains the secret key.

SUBKEY_ID: a hex encoded subkey id

FORMAT: the format of the keys

This function is used to load OpenPGP keys into the GnuTLS credential structure. The files should contain non encrypted keys.

The special keyword "auto" is also accepted as 'subkey_id'. In that case the 'gnutls_openpgp_cert_get_auth_subkey()' will be used to retrieve the subkey.

Returns: On success, 'GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

Since: 2.4.0

gnutls_certificate_set_openpgp_key_file

-- Function: int gnutls_certificate_set_openpgp_key_file
(gnutls_certificate_credentials_t RES, const char * CERTFILE,
const char * KEYFILE, gnutls_openpgp_cert_fmt_t FORMAT)

RES: the destination context to save the data.

CERTFILE: the file that contains the public key.

KEYFILE: the file that contains the secret key.

FORMAT: the format of the keys

This function is used to load OpenPGP keys into the GnuTLS credentials structure. The files should only contain one key which is not encrypted.

Returns: On success, 'GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_certificate_set_openpgp_key_mem2

-- Function: int gnutls_certificate_set_openpgp_key_mem2
(gnutls_certificate_credentials_t RES, const gnutls_datum_t *
CERT, const gnutls_datum_t * KEY, const char * SUBKEY_ID,
gnutls_openpgp_cert_fmt_t FORMAT)

RES: the destination context to save the data.

CERT: the datum that contains the public key.

KEY: the datum that contains the secret key.

SUBKEY_ID: a hex encoded subkey id

FORMAT: the format of the keys

This function is used to load OpenPGP keys into the GnuTLS credentials structure. The files should only contain one key which is not encrypted.

The special keyword "auto" is also accepted as `subkey_id'. In that case the `gnutls_openpgp_cert_get_auth_subkey()' will be used to retrieve the subkey.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

Since: 2.4.0

gnutls_certificate_set_openpgp_key_mem

-- Function: int gnutls_certificate_set_openpgp_key_mem
(gnutls_certificate_credentials_t RES, const gnutls_datum_t *
CERT, const gnutls_datum_t * KEY, gnutls_openpgp_cert_fmt_t
FORMAT)

RES: the destination context to save the data.

CERT: the datum that contains the public key.

KEY: the datum that contains the secret key.

FORMAT: the format of the keys

This function is used to load OpenPGP keys into the GnuTLS credential structure. The files should contain non encrypted keys.

Returns: On success, `GNUTLS_E_SUCCESS' is returned, otherwise a negative error value.

gnutls_certificate_set_openpgp_keyring_file

-- Function: int gnutls_certificate_set_openpgp_keyring_file
(gnutls_certificate_credentials_t C, const char * FILE,
gnutls_openpgp_cert_fmt_t FORMAT)

C: A certificate credentials structure

FILE: filename of the keyring.

FORMAT: format of keyring.

The function is used to set keyrings that will be used internally by various OpenPGP functions. For example to find a key when it is needed for an operations. The keyring will also be used at the verification functions.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_certificate_set_openpgp_keyring_mem`

-- Function: `int gnutls_certificate_set_openpgp_keyring_mem`
 (`gnutls_certificate_credentials_t C`, `const opaque * DATA`,
 `size_t DLEN`, `gnutls_openpgp_cert_fmt_t FORMAT`)
C: A certificate credentials structure

DATA: buffer with keyring data.

DLEN: length of data buffer.

FORMAT: the format of the keyring

The function is used to set keyrings that will be used internally by various OpenPGP functions. For example to find a key when it is needed for an operations. The keyring will also be used at the verification functions.

Returns: On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

`gnutls_certificate_set_openpgp_key`

-- Function: `int gnutls_certificate_set_openpgp_key`
 (`gnutls_certificate_credentials_t RES`, `gnutls_openpgp_cert_t`
 `CRT`, `gnutls_openpgp_privkey_t PKEY`)
RES: is a `gnutls_certificate_credentials_t' structure.

PKEY: is an openpgp private key

This function sets a certificate/private key pair in the `gnutls_certificate_credentials_t` structure. This function may be called more than once (in case multiple keys/certificates exist for the server).

With this function the subkeys of the certificate are not used.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_openpgp_cert_check_hostname

-- Function: int gnutls_openpgp_cert_check_hostname
(gnutls_openpgp_cert_t KEY, const char * HOSTNAME)
KEY: should contain a `gnutls_openpgp_cert_t` structure

HOSTNAME: A null terminated string that contains a DNS name

This function will check if the given key's owner matches the given hostname. This is a basic implementation of the matching described in RFC2818 (HTTPS), which takes into account wildcards.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_deinit

-- Function: void gnutls_openpgp_cert_deinit (gnutls_openpgp_cert_t KEY)
KEY: The structure to be initialized

This function will deinitialize a key structure.

gnutls_openpgp_cert_export

-- Function: int gnutls_openpgp_cert_export (gnutls_openpgp_cert_t KEY,
gnutls_openpgp_cert_fmt_t FORMAT, void * OUTPUT_DATA, size_t *
OUTPUT_DATA_SIZE)

KEY: Holds the key.

FORMAT: One of gnutls_openpgp_cert_fmt_t elements.

OUTPUT_DATA: will contain the key base64 encoded or raw

OUTPUT_DATA_SIZE: holds the size of output_data (and will be replaced by the actual size of parameters)

This function will convert the given key to RAW or Base64 format. If the buffer provided is not long enough to hold the output, then `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_get_auth_subkey

-- Function: int gnutls_openpgp_cert_get_auth_subkey
(gnutls_openpgp_cert_t CRT, gnutls_openpgp_keyid_t KEYID,
unsigned int FLAG)

CRT: the structure that contains the OpenPGP public key.

KEYID: the struct to save the keyid.

FLAG: Non zero indicates that a valid subkey is always returned.

Returns the 64-bit keyID of the first valid OpenPGP subkey marked for authentication. If flag is non zero and no authentication subkey exists, then a valid subkey will be returned even if it is not marked for authentication. Returns the 64-bit keyID of the first valid OpenPGP subkey marked for authentication. If flag is non zero and no authentication subkey exists, then a valid subkey will be returned even if it is not marked for authentication.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_get_creation_time

-- Function: time_t gnutls_openpgp_cert_get_creation_time
(gnutls_openpgp_cert_t KEY)

KEY: the structure that contains the OpenPGP public key.

Get key creation time.

Returns: the timestamp when the OpenPGP key was created.

gnutls_openpgp_cert_get_expiration_time

-- Function: time_t gnutls_openpgp_cert_get_expiration_time
(gnutls_openpgp_cert_t KEY)

KEY: the structure that contains the OpenPGP public key.

Get key expiration time. A value of '0' means that the key doesn't expire at all.

Returns: the time when the OpenPGP key expires.

gnutls_openpgp_cert_get_fingerprint

-- Function: int gnutls_openpgp_cert_get_fingerprint

(gnutls_openpgp_cert_t KEY, void * FPR, size_t * FPRLLEN)

KEY: the raw data that contains the OpenPGP public key.

FPR: the buffer to save the fingerprint, must hold at least 20 bytes.

FPRLLEN: the integer to save the length of the fingerprint.

Get key fingerprint. Depending on the algorithm, the fingerprint can be 16 or 20 bytes.

Returns: On success, 0 is returned. Otherwise, an error code.

gnutls_openpgp_cert_get_key_id

-- Function: int gnutls_openpgp_cert_get_key_id (gnutls_openpgp_cert_t
KEY, gnutls_openpgp_keyid_t KEYID)

KEY: the structure that contains the OpenPGP public key.

KEYID: the buffer to save the keyid.

Get key id string.

Returns: the 64-bit keyID of the OpenPGP key.

Since: 2.4.0

gnutls_openpgp_cert_get_key_usage

-- Function: int gnutls_openpgp_cert_get_key_usage
(gnutls_openpgp_cert_t KEY, unsigned int * KEY_USAGE)

KEY: should contain a gnutls_openpgp_cert_t structure

KEY_USAGE: where the key usage bits will be stored

This function will return certificate's key usage, by checking the key algorithm. The key usage value will ORed values of the:

`GNUTLS_KEY_DIGITAL_SIGNATURE', `GNUTLS_KEY_KEY_ENCRYPTMENT'.

Returns: `GNUTLS_E_SUCCESS' on success, or an error code.

gnutls_openpgp_cert_get_name

-- Function: int gnutls_openpgp_cert_get_name (gnutls_openpgp_cert_t
KEY, int IDX, char * BUF, size_t * SIZEOF_BUF)

KEY: the structure that contains the OpenPGP public key.

IDX: the index of the ID to extract

BUF: a pointer to a structure to hold the name

SIZEOF_BUF: holds the maximum size of `buf`, on return hold the actual/required size of `buf`.

Extracts the userID from the parsed OpenPGP key.

Returns: `GNUTLS_E_SUCCESS` on success, and if the index of the ID does not exist `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE`, or an error code.

gnutls_openpgp_cert_get_pk_algorithm

-- Function: gnutls_pk_algorithm_t gnutls_openpgp_cert_get_pk_algorithm
(gnutls_openpgp_cert_t KEY, unsigned int * BITS)
KEY: is an OpenPGP key

BITS: if bits is non null it will hold the size of the parameters' in bits

This function will return the public key algorithm of an OpenPGP certificate.

If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

gnutls_openpgp_cert_get_pk_dsa_raw

-- Function: int gnutls_openpgp_cert_get_pk_dsa_raw
(gnutls_openpgp_cert_t CRT, gnutls_datum_t * P, gnutls_datum_t * Q, gnutls_datum_t * G, gnutls_datum_t * Y)
CRT: Holds the certificate

P: will hold the p

Q: will hold the q

G: will hold the g

Y: will hold the y

This function will export the DSA public key's parameters found in the given certificate. The new parameters will be allocated using ``gnutls_malloc()` and will be stored in the appropriate datum.

Returns: ``GNUTLS_E_SUCCESS'` on success, otherwise an error.

Since: 2.4.0

`gnutls_openpgp_cert_get_pk_rsa_raw`

-- Function: `int gnutls_openpgp_cert_get_pk_rsa_raw`
(`gnutls_openpgp_cert_t` CRT, `gnutls_datum_t` * M, `gnutls_datum_t` * E)

CRT: Holds the certificate

M: will hold the modulus

E: will hold the public exponent

This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using ``gnutls_malloc()` and will be stored in the appropriate datum.

Returns: ``GNUTLS_E_SUCCESS'` on success, otherwise an error.

Since: 2.4.0

`gnutls_openpgp_cert_get_preferred_key_id`

-- Function: `int gnutls_openpgp_cert_get_preferred_key_id`
(`gnutls_openpgp_cert_t` KEY, `gnutls_openpgp_keyid_t` KEYID)

KEY: the structure that contains the OpenPGP public key.

KEYID: the struct to save the keyid.

Get preferred key id. If it hasn't been set it returns ``GNUTLS_E_INVALID_REQUEST'`.

Returns: the 64-bit preferred keyID of the OpenPGP key.

`gnutls_openpgp_cert_get_revoked_status`

-- Function: int gnutls_openpgp_cert_get_revoked_status
(gnutls_openpgp_cert_t KEY)
KEY: the structure that contains the OpenPGP public key.

Get revocation status of key.

Returns: true (1) if the key has been revoked, or false (0) if it has not.

Since: 2.4.0

gnutls_openpgp_cert_get_subkey_count

-- Function: int gnutls_openpgp_cert_get_subkey_count
(gnutls_openpgp_cert_t KEY)
KEY: is an OpenPGP key

This function will return the number of subkeys present in the given OpenPGP certificate.

Returns: the number of subkeys, or a negative value on error.

Since: 2.4.0

gnutls_openpgp_cert_get_subkey_creation_time

-- Function: time_t gnutls_openpgp_cert_get_subkey_creation_time
(gnutls_openpgp_cert_t KEY, unsigned int IDX)
KEY: the structure that contains the OpenPGP public key.

IDX: the subkey index

Get subkey creation time.

Returns: the timestamp when the OpenPGP sub-key was created.

Since: 2.4.0

gnutls_openpgp_cert_get_subkey_expiration_time

-- Function: time_t gnutls_openpgp_cert_get_subkey_expiration_time
(gnutls_openpgp_cert_t KEY, unsigned int IDX)
KEY: the structure that contains the OpenPGP public key.

IDX: the subkey index

Get subkey expiration time. A value of '0' means that the key doesn't expire at all.

Returns: the time when the OpenPGP key expires.

Since: 2.4.0

gnutls_openpgp_crt_get_subkey_fingerprint

-- Function: int gnutls_openpgp_crt_get_subkey_fingerprint
(gnutls_openpgp_crt_t KEY, unsigned int IDX, void * FPR,
size_t * FPRLLEN)

KEY: the raw data that contains the OpenPGP public key.

IDX: the subkey index

FPR: the buffer to save the fingerprint, must hold at least 20 bytes.

FPRLLEN: the integer to save the length of the fingerprint.

Get key fingerprint of a subkey. Depending on the algorithm, the fingerprint can be 16 or 20 bytes.

Returns: On success, 0 is returned. Otherwise, an error code.

Since: 2.4.0

gnutls_openpgp_crt_get_subkey_idx

-- Function: int gnutls_openpgp_crt_get_subkey_idx
(gnutls_openpgp_crt_t KEY, const gnutls_openpgp_keyid_t KEYID)

KEY: the structure that contains the OpenPGP public key.

KEYID: the keyid.

Get subkey's index.

Returns: the index of the subkey or a negative error value.

Since: 2.4.0

gnutls_openpgp_crt_get_subkey_id

-- Function: int gnutls_openpgp_cert_get_subkey_id
(gnutls_openpgp_cert_t KEY, unsigned int IDX,
gnutls_openpgp_keyid_t KEYID)
KEY: the structure that contains the OpenPGP public key.

IDX: the subkey index

KEYID: the buffer to save the keyid.

Get the subkey's key-id.

Returns: the 64-bit keyID of the OpenPGP key.

gnutls_openpgp_cert_get_subkey_pk_algorithm

-- Function: gnutls_pk_algorithm_t
gnutls_openpgp_cert_get_subkey_pk_algorithm (gnutls_openpgp_cert_t KEY,
unsigned int IDX, unsigned int * BITS)

KEY: is an OpenPGP key

IDX: is the subkey index

BITS: if bits is non null it will hold the size of the parameters'
in bits

This function will return the public key algorithm of a subkey of
an OpenPGP certificate.

If bits is non null, it should have enough size to hold the
parameters size in bits. For RSA the bits returned is the modulus.
For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t' enumeration on
success, or a negative value on error.

Since: 2.4.0

gnutls_openpgp_cert_get_subkey_pk_dsa_raw

-- Function: int gnutls_openpgp_cert_get_subkey_pk_dsa_raw
(gnutls_openpgp_cert_t CRT, unsigned int IDX, gnutls_datum_t *
P, gnutls_datum_t * Q, gnutls_datum_t * G, gnutls_datum_t * Y)

CRT: Holds the certificate

IDX: Is the subkey index

P: will hold the p

Q: will hold the q

G: will hold the g

Y: will hold the y

This function will export the DSA public key's parameters found in the given certificate. The new parameters will be allocated using `gnutls_malloc()` and will be stored in the appropriate datum.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

Since: 2.4.0

`gnutls_openpgp_cert_get_subkey_pk_rsa_raw`

-- Function: `int gnutls_openpgp_cert_get_subkey_pk_rsa_raw`
(`gnutls_openpgp_cert_t` CRT, unsigned int IDX, `gnutls_datum_t` *
M, `gnutls_datum_t` * E)
CRT: Holds the certificate

IDX: Is the subkey index

M: will hold the modulus

E: will hold the public exponent

This function will export the RSA public key's parameters found in the given structure. The new parameters will be allocated using `gnutls_malloc()` and will be stored in the appropriate datum.

Returns: `GNUTLS_E_SUCCESS` on success, otherwise an error.

Since: 2.4.0

`gnutls_openpgp_cert_get_subkey_revoked_status`

-- Function: `int gnutls_openpgp_cert_get_subkey_revoked_status`
(`gnutls_openpgp_cert_t` KEY, unsigned int IDX)
KEY: the structure that contains the OpenPGP public key.

IDX: is the subkey index

Get subkey revocation status. A negative value indicates an error.

Returns: true (1) if the key has been revoked, or false (0) if it has not.

Since: 2.4.0

gnutls_openpgp_cert_get_subkey_usage

-- Function: int gnutls_openpgp_cert_get_subkey_usage
(gnutls_openpgp_cert_t KEY, unsigned int IDX, unsigned int *
KEY_USAGE)

KEY: should contain a gnutls_openpgp_cert_t structure

IDX: the subkey index

KEY_USAGE: where the key usage bits will be stored

This function will return certificate's key usage, by checking the key algorithm. The key usage value will ORed values of `GNUTLS_KEY_DIGITAL_SIGNATURE` or `GNUTLS_KEY_KEY_ENCIPHERMENT`.

A negative value may be returned in case of parsing error.

Returns: key usage value.

Since: 2.4.0

gnutls_openpgp_cert_get_version

-- Function: int gnutls_openpgp_cert_get_version (gnutls_openpgp_cert_t
KEY)

KEY: the structure that contains the OpenPGP public key.

Extract the version of the OpenPGP key.

Returns: the version number is returned, or a negative value on errors.

gnutls_openpgp_cert_import

-- Function: int gnutls_openpgp_cert_import (gnutls_openpgp_cert_t KEY,
const gnutls_datum_t * DATA, gnutls_openpgp_cert_fmt_t FORMAT)

KEY: The structure to store the parsed key.

DATA: The RAW or BASE64 encoded key.

FORMAT: One of gnutls_openpgp_cert_fmt_t elements.

This function will convert the given RAW or Base64 encoded key to the native `gnutls_openpgp_cert_t` format. The output will be stored in 'key'.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_init

-- Function: int gnutls_openpgp_cert_init (gnutls_openpgp_cert_t * KEY)
KEY: The structure to be initialized

This function will initialize an OpenPGP key structure.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_print

-- Function: int gnutls_openpgp_cert_print (gnutls_openpgp_cert_t CERT,
gnutls_certificate_print_formats_t FORMAT, gnutls_datum_t *
OUT)

CERT: The structure to be printed

FORMAT: Indicate the format to use

OUT: Newly allocated datum with zero terminated string.

This function will pretty print an OpenPGP certificate, suitable for display to a human.

The format should be zero for future compatibility.

The output `out` needs to be deallocate using `gnutls_free()`.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_set_preferred_key_id

-- Function: int gnutls_openpgp_cert_set_preferred_key_id
(gnutls_openpgp_cert_t KEY, const gnutls_openpgp_keyid_t KEYID)
KEY: the structure that contains the OpenPGP public key.

KEYID: the selected keyid

This allows setting a preferred key id for the given certificate.

This key will be used by functions that involve key handling.

Returns: On success, `GNUTLS_E_SUCCESS` (zero) is returned, otherwise an error code is returned.

gnutls_openpgp_cert_verify_ring

-- Function: int gnutls_openpgp_cert_verify_ring (gnutls_openpgp_cert_t
KEY, gnutls_openpgp_keyring_t KEYRING, unsigned int FLAGS,
unsigned int * VERIFY)

KEY: the structure that holds the key.

KEYRING: holds the keyring to check against

FLAGS: unused (should be 0)

VERIFY: will hold the certificate verification output.

Verify all signatures in the key, using the given set of keys
(keyring).

The key verification output will be put in `verify` and will be one
or more of the `gnutls_certificate_status_t` enumerated elements
bitwise or'd.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_cert_verify_self

-- Function: int gnutls_openpgp_cert_verify_self (gnutls_openpgp_cert_t
KEY, unsigned int FLAGS, unsigned int * VERIFY)

KEY: the structure that holds the key.

FLAGS: unused (should be 0)

VERIFY: will hold the key verification output.

Verifies the self signature in the key. The key verification
output will be put in `verify` and will be one or more of the
`gnutls_certificate_status_t` enumerated elements bitwise or'd.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_keyring_check_id

-- Function: int gnutls_openpgp_keyring_check_id
(gnutls_openpgp_keyring_t RING, const gnutls_openpgp_keyid_t
KEYID, unsigned int FLAGS)
RING: holds the keyring to check against

KEYID: will hold the keyid to check for.

FLAGS: unused (should be 0)

Check if a given key ID exists in the keyring.

Returns: `GNUTLS_E_SUCCESS` on success (if keyid exists) and a
negative error code on failure.

gnutls_openpgp_keyring_deinit

-- Function: void gnutls_openpgp_keyring_deinit
(gnutls_openpgp_keyring_t KEYRING)
KEYRING: The structure to be initialized

This function will deinitialize a keyring structure.

gnutls_openpgp_keyring_get_cert_count

-- Function: int gnutls_openpgp_keyring_get_cert_count
(gnutls_openpgp_keyring_t RING)
RING: is an OpenPGP key ring

This function will return the number of OpenPGP certificates
present in the given keyring.

Returns: the number of subkeys, or a negative value on error.

gnutls_openpgp_keyring_get_cert

-- Function: int gnutls_openpgp_keyring_get_cert
(gnutls_openpgp_keyring_t RING, unsigned int IDX,
gnutls_openpgp_cert_t * CERT)
RING: Holds the keyring.

IDX: the index of the certificate to export

CERT: An uninitialized `gnutls_openpgp_cert_t` structure

This function will extract an OpenPGP certificate from the given keyring. If the index given is out of range `GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE` will be returned. The returned structure needs to be deinited.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_keyring_import

-- Function: int gnutls_openpgp_keyring_import
(gnutls_openpgp_keyring_t KEYRING, const gnutls_datum_t *
DATA, gnutls_openpgp_cert_fmt_t FORMAT)

KEYRING: The structure to store the parsed key.

DATA: The RAW or BASE64 encoded keyring.

FORMAT: One of `gnutls_openpgp_keyring_fmt` elements.

This function will convert the given RAW or Base64 encoded keyring to the native `gnutls_openpgp_keyring_t` format. The output will be stored in 'keyring'.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_keyring_init

-- Function: int gnutls_openpgp_keyring_init (gnutls_openpgp_keyring_t
* KEYRING)

KEYRING: The structure to be initialized

This function will initialize an keyring structure.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_privkey_deinit

-- Function: void gnutls_openpgp_privkey_deinit
(gnutls_openpgp_privkey_t KEY)

KEY: The structure to be initialized

This function will deinitialize a key structure.

gnutls_openpgp_privkey_export_dsa_raw

```
-- Function: int gnutls_openpgp_privkey_export_dsa_raw
(gnutls_openpgp_privkey_t PKEY, gnutls_datum_t * P,
 gnutls_datum_t * Q, gnutls_datum_t * G, gnutls_datum_t * Y,
 gnutls_datum_t * X)
PKEY: Holds the certificate
```

P: will hold the p

Q: will hold the q

G: will hold the g

Y: will hold the y

X: will hold the x

This function will export the DSA private key's parameters found in the given certificate. The new parameters will be allocated using ``gnutls_malloc()`` and will be stored in the appropriate datum.

**Returns:* ``GNUTLS_E_SUCCESS'` on success, otherwise an error.

**Since:* 2.4.0

```
gnutls_openpgp_privkey_export_rsa_raw
-----
```

```
-- Function: int gnutls_openpgp_privkey_export_rsa_raw
(gnutls_openpgp_privkey_t PKEY, gnutls_datum_t * M,
 gnutls_datum_t * E, gnutls_datum_t * D, gnutls_datum_t * P,
 gnutls_datum_t * Q, gnutls_datum_t * U)
PKEY: Holds the certificate
```

M: will hold the modulus

E: will hold the public exponent

D: will hold the private exponent

P: will hold the first prime (p)

Q: will hold the second prime (q)

U: will hold the coefficient

This function will export the RSA private key's parameters found in the given structure. The new parameters will be allocated using

`gnutls_malloc()' and will be stored in the appropriate datum.

Returns: `GNUTLS_E_SUCCESS' on success, otherwise an error.

Since: 2.4.0

gnutls_openpgp_privkey_export_subkey_dsa_raw

-- Function: int gnutls_openpgp_privkey_export_subkey_dsa_raw
 (gnutls_openpgp_privkey_t PKEY, unsigned int IDX,
 gnutls_datum_t * P, gnutls_datum_t * Q, gnutls_datum_t * G,
 gnutls_datum_t * Y, gnutls_datum_t * X)

PKEY: Holds the certificate

IDX: Is the subkey index

P: will hold the p

Q: will hold the q

G: will hold the g

Y: will hold the y

X: will hold the x

This function will export the DSA private key's parameters found in the given certificate. The new parameters will be allocated using `gnutls_malloc()' and will be stored in the appropriate datum.

Returns: `GNUTLS_E_SUCCESS' on success, otherwise an error.

Since: 2.4.0

gnutls_openpgp_privkey_export_subkey_rsa_raw

-- Function: int gnutls_openpgp_privkey_export_subkey_rsa_raw
 (gnutls_openpgp_privkey_t PKEY, unsigned int IDX,
 gnutls_datum_t * M, gnutls_datum_t * E, gnutls_datum_t * D,
 gnutls_datum_t * P, gnutls_datum_t * Q, gnutls_datum_t * U)

PKEY: Holds the certificate

IDX: Is the subkey index

M: will hold the modulus

E: will hold the public exponent

D: will hold the private exponent

P: will hold the first prime (p)

Q: will hold the second prime (q)

U: will hold the coefficient

This function will export the RSA private key's parameters found in the given structure. The new parameters will be allocated using ``gnutls_malloc()` and will be stored in the appropriate datum.

Returns: ``GNUTLS_E_SUCCESS'` on success, otherwise an error.

Since: 2.4.0

`gnutls_openpgp_privkey_export`

-- Function: `int gnutls_openpgp_privkey_export`
(`gnutls_openpgp_privkey_t KEY`, `gnutls_openpgp_crt_fmt_t`
`FORMAT`, `const char * PASSWORD`, `unsigned int FLAGS`, `void *`
`OUTPUT_DATA`, `size_t * OUTPUT_DATA_SIZE`)
KEY: Holds the key.

FORMAT: One of `gnutls_openpgp_crt_fmt_t` elements.

PASSWORD: the password that will be used to encrypt the key.
(unused for now)

FLAGS: zero for future compatibility

OUTPUT_DATA: will contain the key base64 encoded or raw

OUTPUT_DATA_SIZE: holds the size of `output_data` (and will be replaced by the actual size of parameters)

This function will convert the given key to RAW or Base64 format. If the buffer provided is not long enough to hold the output, then `GNUTLS_E_SHORT_MEMORY_BUFFER` will be returned.

Returns: ``GNUTLS_E_SUCCESS'` on success, or an error code.

Since: 2.4.0

gnutls_openpgp_privkey_get_fingerprint

-- Function: int gnutls_openpgp_privkey_get_fingerprint
(gnutls_openpgp_privkey_t KEY, void * FPR, size_t * FPRLEN)
KEY: the raw data that contains the OpenPGP secret key.

FPR: the buffer to save the fingerprint, must hold at least 20 bytes.

FPRLEN: the integer to save the length of the fingerprint.

Get the fingerprint of the OpenPGP key. Depends on the algorithm, the fingerprint can be 16 or 20 bytes.

Returns: On success, 0 is returned, or an error code.

Since: 2.4.0

gnutls_openpgp_privkey_get_key_id

-- Function: int gnutls_openpgp_privkey_get_key_id
(gnutls_openpgp_privkey_t KEY, gnutls_openpgp_keyid_t KEYID)
KEY: the structure that contains the OpenPGP secret key.

KEYID: the buffer to save the keyid.

Get key-id.

Returns: the 64-bit keyID of the OpenPGP key.

Since: 2.4.0

gnutls_openpgp_privkey_get_pk_algorithm

-- Function: gnutls_pk_algorithm_t
gnutls_openpgp_privkey_get_pk_algorithm (gnutls_openpgp_privkey_t KEY,
unsigned int * BITS)
KEY: is an OpenPGP key

BITS: if bits is non null it will hold the size of the parameters' in bits

This function will return the public key algorithm of an OpenPGP certificate.

If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

Since: 2.4.0

gnutls_openpgp_privkey_get_preferred_key_id

-- Function: int gnutls_openpgp_privkey_get_preferred_key_id
(gnutls_openpgp_privkey_t KEY, gnutls_openpgp_keyid_t KEYID)
KEY: the structure that contains the OpenPGP public key.

KEYID: the struct to save the keyid.

Get the preferred key-id for the key.

Returns: the 64-bit preferred keyID of the OpenPGP key, or if it hasn't been set it returns `GNUTLS_E_INVALID_REQUEST`.

gnutls_openpgp_privkey_get_revoked_status

-- Function: int gnutls_openpgp_privkey_get_revoked_status
(gnutls_openpgp_privkey_t KEY)
KEY: the structure that contains the OpenPGP private key.

Get revocation status of key.

Returns: true (1) if the key has been revoked, or false (0) if it has not, or a negative value indicates an error.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_count

-- Function: int gnutls_openpgp_privkey_get_subkey_count
(gnutls_openpgp_privkey_t KEY)
KEY: is an OpenPGP key

This function will return the number of subkeys present in the given OpenPGP certificate.

Returns: the number of subkeys, or a negative value on error.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_creation_time

-- Function: time_t gnutls_openpgp_privkey_get_subkey_creation_time

(gnutls_openpgp_privkey_t KEY, unsigned int IDX)

KEY: the structure that contains the OpenPGP private key.

IDX: the subkey index

Get subkey creation time.

Returns: the timestamp when the OpenPGP key was created.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_expiration_time

-- Function: time_t gnutls_openpgp_privkey_get_subkey_expiration_time

(gnutls_openpgp_privkey_t KEY, unsigned int IDX)

KEY: the structure that contains the OpenPGP private key.

IDX: the subkey index

Get subkey expiration time. A value of '0' means that the key doesn't expire at all.

Returns: the time when the OpenPGP key expires.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_fingerprint

-- Function: int gnutls_openpgp_privkey_get_subkey_fingerprint

(gnutls_openpgp_privkey_t KEY, unsigned int IDX, void * FPR,
size_t * FPRLLEN)

KEY: the raw data that contains the OpenPGP secret key.

IDX: the subkey index

FPR: the buffer to save the fingerprint, must hold at least 20 bytes.

FPRLLEN: the integer to save the length of the fingerprint.

Get the fingerprint of an OpenPGP subkey. Depends on the algorithm, the fingerprint can be 16 or 20 bytes.

Returns: On success, 0 is returned, or an error code.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_idx

-- Function: int gnutls_openpgp_privkey_get_subkey_idx
(gnutls_openpgp_privkey_t KEY, const gnutls_openpgp_keyid_t
KEYID)

KEY: the structure that contains the OpenPGP private key.

KEYID: the keyid.

Get index of subkey.

Returns: the index of the subkey or a negative error value.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_id

-- Function: int gnutls_openpgp_privkey_get_subkey_id
(gnutls_openpgp_privkey_t KEY, unsigned int IDX,
gnutls_openpgp_keyid_t KEYID)

KEY: the structure that contains the OpenPGP secret key.

IDX: the subkey index

KEYID: the buffer to save the keyid.

Get the key-id for the subkey.

Returns: the 64-bit keyID of the OpenPGP key.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_pk_algorithm

-- Function: gnutls_pk_algorithm_t
gnutls_openpgp_privkey_get_subkey_pk_algorithm
(gnutls_openpgp_privkey_t KEY, unsigned int IDX, unsigned int

* BITS)

KEY: is an OpenPGP key

IDX: is the subkey index

BITS: if bits is non null it will hold the size of the parameters' in bits

This function will return the public key algorithm of a subkey of an OpenPGP certificate.

If bits is non null, it should have enough size to hold the parameters size in bits. For RSA the bits returned is the modulus. For DSA the bits returned are of the public exponent.

Returns: a member of the `gnutls_pk_algorithm_t` enumeration on success, or a negative value on error.

Since: 2.4.0

gnutls_openpgp_privkey_get_subkey_revoked_status

-- Function: int gnutls_openpgp_privkey_get_subkey_revoked_status

(gnutls_openpgp_privkey_t KEY, unsigned int IDX)

KEY: the structure that contains the OpenPGP private key.

IDX: is the subkey index

Get revocation status of key.

Returns: true (1) if the key has been revoked, or false (0) if it has not, or a negative value indicates an error.

Since: 2.4.0

gnutls_openpgp_privkey_import

-- Function: int gnutls_openpgp_privkey_import

(gnutls_openpgp_privkey_t KEY, const gnutls_datum_t * DATA,

gnutls_openpgp crt_fmt_t FORMAT, const char * PASSWORD,

unsigned int FLAGS)

KEY: The structure to store the parsed key.

DATA: The RAW or BASE64 encoded key.

FORMAT: One of `gnutls_openpgp crt_fmt_t` elements.

PASSWORD: not used for now

FLAGS: should be zero

This function will convert the given RAW or Base64 encoded key to the native gnutls_openpgp_privkey_t format. The output will be stored in 'key'.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_privkey_init

-- Function: int gnutls_openpgp_privkey_init (gnutls_openpgp_privkey_t
* KEY)

KEY: The structure to be initialized

This function will initialize an OpenPGP key structure.

Returns: `GNUTLS_E_SUCCESS` on success, or an error code.

gnutls_openpgp_privkey_set_preferred_key_id

-- Function: int gnutls_openpgp_privkey_set_preferred_key_id
(gnutls_openpgp_privkey_t KEY, const gnutls_openpgp_keyid_t
KEYID)

KEY: the structure that contains the OpenPGP public key.

KEYID: the selected keyid

This allows setting a preferred key id for the given certificate.

This key will be used by functions that involve key handling.

Returns: On success, 0 is returned, or an error code.

gnutls_openpgp_privkey_sign_hash

-- Function: int gnutls_openpgp_privkey_sign_hash
(gnutls_openpgp_privkey_t KEY, const gnutls_datum_t * HASH,
gnutls_datum_t * SIGNATURE)

KEY: Holds the key

HASH: holds the data to be signed

SIGNATURE: will contain newly allocated signature

This function will sign the given hash using the private key. You should use `gnutls_openpgp_privkey_set_subkey()` before calling this function to set the subkey to use.

***Returns:** On success, `GNUTLS_E_SUCCESS` is returned, otherwise a negative error value.

gnutls_openpgp_set_rcv_key_function

-- Function: void gnutls_openpgp_set_rcv_key_function
(gnutls_session_t SESSION, gnutls_openpgp_rcv_key_func FUNC)
SESSION: a TLS session

FUNC: the callback

This function will set a key retrieval function for OpenPGP keys. This callback is only useful in server side, and will be used if the peer sent a key fingerprint instead of a full key.

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9.5 TLS Inner Application (TLS/IA) Functions

=====

The following functions are used for TLS Inner Application (TLS/IA). Their prototypes lie in `gnutls/extra.h`. You need to link with `libgnutls-extra` to be able to use these functions (*note GnuTLS-extra functions:).

The typical control flow in an TLS/IA client (that would not require an Application Phase for resumed sessions) would be similar to the following:

```
int client_avp (gnutls_session_t *session, void *ptr,
               const char *last, size_t lastlen,
               char **new, size_t *newlen)
{
...
}
...
int main ()
{
    gnutls_ia_client_credentials_t iacred;
...
}
```

```

gnutls_init (&session, GNUTLS_CLIENT);
...
/* Enable TLS/IA. */
gnutls_ia_allocate_client_credentials(&iacred);
gnutls_ia_set_client_avp_function(iacred, client_avp);
gnutls_credentials_set (session, GNUTLS_CRD_IA, iacred);
...
ret = gnutls_handshake (session);
// Error handling...
...
if (gnutls_ia_handshake_p (session))
{
ret = gnutls_ia_handshake (session);
// Error handling...
}
...

```

See below for detailed descriptions of all the functions used above.

The function ``client_avp'` would have to be implemented by your application. The function is responsible for handling the AVP data. See ``gnutls_ia_set_client_avp_function'` below for more information on how that function should be implemented.

The control flow in a typical server is similar to the above, use ``gnutls_ia_server_credentials_t'` instead of ``gnutls_ia_client_credentials_t'`, and replace the call to the client functions with the corresponding server functions.

`gnutls_ia_allocate_client_credentials`

```

-- Function: int gnutls_ia_allocate_client_credentials
(gnutls_ia_client_credentials_t * SC)
SC: is a pointer to a `gnutls_ia_server_credentials_t' structure.

```

This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

Adding this credential to a session will enable TLS/IA, and will require an Application Phase after the TLS handshake (if the server support TLS/IA). Use ``gnutls_ia_require_inner_phase()'` to toggle the TLS/IA mode.

Returns: On success, ``GNUTLS_E_SUCCESS'` (0) is returned, otherwise an error code is returned.

`gnutls_ia_allocate_server_credentials`

-- Function: int gnutls_ia_allocate_server_credentials
(gnutls_ia_server_credentials_t * SC)
SC: is a pointer to a `gnutls_ia_server_credentials_t' structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to allocate it.

Adding this credential to a session will enable TLS/IA, and will require an Application Phase after the TLS handshake (if the client support TLS/IA). Use `gnutls_ia_require_inner_phase()' to toggle the TLS/IA mode.

Returns: On success, `GNUTLS_E_SUCCESS' (0) is returned, otherwise an error code is returned.

gnutls_ia_enable

-- Function: void gnutls_ia_enable (gnutls_session_t SESSION, int
ALLOW_SKIP_ON_RESUME)
SESSION: is a `gnutls_session_t' structure.

ALLOW_SKIP_ON_RESUME: non-zero if local party allows to skip the TLS/IA application phases for a resumed session.

Specify whether we must advertise support for the TLS/IA extension during the handshake.

At the client side, we always advertise TLS/IA if gnutls_ia_enable was called before the handshake; at the server side, we also require that the client has advertised that it wants to run TLS/IA before including the advertisement, as required by the protocol.

Similarly, at the client side we always advertise that we allow TLS/IA to be skipped for resumed sessions if `allow_skip_on_resume' is non-zero; at the server side, we also require that the session is indeed resumable and that the client has also advertised that it allows TLS/IA to be skipped for resumed sessions.

After the TLS handshake, call `gnutls_ia_handshake_p()' to find out whether both parties agreed to do a TLS/IA handshake, before calling `gnutls_ia_handshake()' or one of the lower level gnutls_ia_* functions.

gnutls_ia_endphase_send

-- Function: int gnutls_ia_endphase_send (gnutls_session_t SESSION,
int FINAL_P)

SESSION: is a `gnutls_session_t' structure.

FINAL_P: Set iff this should signal the final phase.

Send a TLS/IA end phase message.

In the client, this should only be used to acknowledge an end phase message sent by the server.

In the server, this can be called instead of `gnutls_ia_send()' if the server wishes to end an application phase.

Return value: Return 0 on success, or an error code.

gnutls_ia_extract_inner_secret

-- Function: void gnutls_ia_extract_inner_secret (gnutls_session_t
SESSION, char * BUFFER)

SESSION: is a `gnutls_session_t' structure.

BUFFER: pre-allocated buffer to hold 48 bytes of inner secret.

Copy the 48 bytes large inner secret into the specified buffer

This function is typically used after the TLS/IA handshake has concluded. The TLS/IA inner secret can be used as input to a PRF to derive session keys. Do not use the inner secret directly as a session key, because for a resumed session that does not include an application phase, the inner secret will be identical to the inner secret in the original session. It is important to include, for example, the client and server randomness when deriving a session key from the inner secret.

gnutls_ia_free_client_credentials

-- Function: void gnutls_ia_free_client_credentials
(gnutls_ia_client_credentials_t SC)

SC: is a `gnutls_ia_client_credentials_t' structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_ia_free_server_credentials

-- Function: void gnutls_ia_free_server_credentials
(gnutls_ia_server_credentials_t SC)
SC: is a `gnutls_ia_server_credentials_t' structure.

This structure is complex enough to manipulate directly thus this helper function is provided in order to free (deallocate) it.

gnutls_ia_generate_challenge

-- Function: int gnutls_ia_generate_challenge (gnutls_session_t
SESSION, size_t BUFFER_SIZE, char * BUFFER)
SESSION: is a `gnutls_session_t' structure.

BUFFER_SIZE: size of output buffer.

BUFFER: pre-allocated buffer to contain `buffer_size' bytes of output.

Generate an application challenge that the client cannot control or predict, based on the TLS/IA inner secret.

Return value: Returns 0 on success, or an negative error code.

gnutls_ia_get_client_avp_ptr

-- Function: void * gnutls_ia_get_client_avp_ptr
(gnutls_ia_client_credentials_t CRED)
CRED: is a `gnutls_ia_client_credentials_t' structure.

Returns the pointer that will be provided to the TLS/IA callback function as the first argument.

Returns: The client callback data pointer.

gnutls_ia_get_server_avp_ptr

-- Function: void * gnutls_ia_get_server_avp_ptr
(gnutls_ia_server_credentials_t CRED)
CRED: is a `gnutls_ia_client_credentials_t' structure.

Returns the pointer that will be provided to the TLS/IA callback function as the first argument.

Returns: The server callback data pointer.

gnutls_ia_handshake_p

-- Function: int gnutls_ia_handshake_p (gnutls_session_t SESSION)
SESSION: is a `gnutls_session_t' structure.

Predicate to be used after `gnutls_handshake()' to decide whether to invoke `gnutls_ia_handshake()'. Usable by both clients and servers.

Return value: non-zero if TLS/IA handshake is expected, zero otherwise.

gnutls_ia_handshake

-- Function: int gnutls_ia_handshake (gnutls_session_t SESSION)
SESSION: is a `gnutls_session_t' structure.

Perform a TLS/IA handshake. This should be called after `gnutls_handshake()' iff `gnutls_ia_handshake_p()'.

Returns: On success, `GNUTLS_E_SUCCESS' (zero) is returned, otherwise an error code is returned.

gnutls_ia_permute_inner_secret

-- Function: int gnutls_ia_permute_inner_secret (gnutls_session_t SESSION, size_t SESSION_KEYS_SIZE, const char * SESSION_KEYS)
SESSION: is a `gnutls_session_t' structure.

SESSION_KEYS_SIZE: Size of generated session keys (0 if none).

SESSION_KEYS: Generated session keys, used to permute inner secret (NULL if none).

Permute the inner secret using the generated session keys.

This can be called in the TLS/IA AVP callback to mix any generated session keys with the TLS/IA inner secret.

Return value: Return zero on success, or a negative error code.

gnutls_ia_rcv

-- Function: `ssize_t gnutls_ia_recv (gnutls_session_t SESSION, char *`

`DATA, size_t SIZEOFDATA)`

SESSION: is a ``gnutls_session_t'` structure.

DATA: the buffer that the data will be read into, must hold ≥ 12 bytes.

SIZEOFDATA: the number of requested bytes, must be ≥ 12 .

Receive TLS/IA data. This function has the similar semantics with ``recv()`. The only difference is that it accepts a GnuTLS session, and uses different error codes.

If the server attempt to finish an application phase, this function will return ``GNUTLS_E_WARNING_IA_IPHF_RECEIVED'` or ``GNUTLS_E_WARNING_IA_FPHF_RECEIVED'`. The caller should then invoke ``gnutls_ia_verify_endphase()`, and if it runs the client side, also send an endphase message of its own using `gnutls_ia_endphase_send`.

If EINTR is returned by the internal push function (the default is ``code'{'recv()'}`) then `GNUTLS_E_INTERRUPTED` will be returned. If `GNUTLS_E_INTERRUPTED` or `GNUTLS_E_AGAIN` is returned, you must call this function again, with the same parameters; alternatively you could provide a NULL pointer for data, and 0 for size.

Returns: The number of bytes received. A negative error code is returned in case of an error. The ``GNUTLS_E_WARNING_IA_IPHF_RECEIVED'` and ``GNUTLS_E_WARNING_IA_FPHF_RECEIVED'` errors are returned when an application phase finished message has been sent by the server.

`gnutls_ia_send`

-- Function: `ssize_t gnutls_ia_send (gnutls_session_t SESSION, const`

`char * DATA, size_t SIZEOFDATA)`

SESSION: is a ``gnutls_session_t'` structure.

DATA: contains the data to send

SIZEOFDATA: is the length of the data

Send TLS/IA application payload data. This function has the similar semantics with ``send()`. The only difference is that it accepts a GnuTLS session, and uses different error codes.

The TLS/IA protocol is synchronous, so you cannot send more than one packet at a time. The client always send the first packet.

To finish an application phase in the server, use ``gnutls_ia_endphase_send()`'. The client cannot end an application phase unilaterally; rather, a client is required to respond with an endphase of its own if `gnutls_ia_rcv` indicates that the server has sent one.

If the `EINTR` is returned by the internal push function (the default is ``send()`') then ``GNUTLS_E_INTERRUPTED'` will be returned. If ``GNUTLS_E_INTERRUPTED'` or ``GNUTLS_E_AGAIN'` is returned, you must call this function again, with the same parameters; alternatively you could provide a ``NULL'` pointer for data, and 0 for size.

Returns: The number of bytes sent, or a negative error code.

`gnutls_ia_set_client_avp_function`

-- Function: void `gnutls_ia_set_client_avp_function`
 (`gnutls_ia_client_credentials_t` CRED, `gnutls_ia_avp_func`
 AVP_FUNC)
CRED: is a ``gnutls_ia_client_credentials_t'` structure.

AVP_FUNC: is the callback function

Set the TLS/IA AVP callback handler used for the session.

The AVP callback is called to process AVPs received from the server, and to get a new AVP to send to the server.

The callback's function form is: `int (*avp_func) (gnutls_session_t session, void *ptr, const char *last, size_t lastlen, char **next, size_t *nextlen);`

The ``session'` parameter is the ``gnutls_session_t'` structure corresponding to the current session. The ``ptr'` parameter is the application hook pointer, set through ``gnutls_ia_set_client_avp_ptr()`'. The AVP received from the server is present in ``last'` of ``lastlen'` size, which will be ``NULL'` on the first invocation. The newly allocated output AVP to send to the server should be placed in ``*next'` of ``*nextlen'` size.

The callback may invoke ``gnutls_ia_permute_inner_secret()`' to mix any generated session keys with the TLS/IA inner secret.

Return 0 (``GNUTLS_IA_APPLICATION_PAYLOAD'`) on success, or a negative error code to abort the TLS/IA handshake.

Note that the callback must use allocate the `next` parameter using `gnutls_malloc()`, because it is released via `gnutls_free()` by the TLS/IA handshake function.

`gnutls_ia_set_client_avp_ptr`

-- Function: void gnutls_ia_set_client_avp_ptr
(gnutls_ia_client_credentials_t CRED, void * PTR)
CRED: is a `gnutls_ia_client_credentials_t` structure.

PTR: is the pointer

Sets the pointer that will be provided to the TLS/IA callback function as the first argument.

`gnutls_ia_set_server_avp_function`

-- Function: void gnutls_ia_set_server_avp_function
(gnutls_ia_server_credentials_t CRED, gnutls_ia_avp_func
AVP_FUNC)
CRED: is a `gnutls_ia_server_credentials_t` structure.

Set the TLS/IA AVP callback handler used for the session.

The callback's function form is: int (*avp_func) (gnutls_session_t session, void *ptr, const char *last, size_t lastlen, char **next, size_t *nextlen);

The `session` parameter is the `gnutls_session_t` structure corresponding to the current session. The `ptr` parameter is the application hook pointer, set through `gnutls_ia_set_server_avp_ptr()`. The AVP received from the client is present in `last` of `lastlen` size. The newly allocated output AVP to send to the client should be placed in `*next` of `*nextlen` size.

The AVP callback is called to process incoming AVPs from the client, and to get a new AVP to send to the client. It can also be used to instruct the TLS/IA handshake to do go into the Intermediate or Final phases. It return a negative error code, or a `gnutls_ia_apptype_t` message type.

The callback may invoke `gnutls_ia_permute_inner_secret()` to mix any generated session keys with the TLS/IA inner secret.

Specifically, return `GNUTLS_IA_APPLICATION_PAYLOAD` (0) to send

another AVP to the client, return

`GNUTLS_IA_INTERMEDIATE_PHASE_FINISHED' (1) to indicate that an IntermediatePhaseFinished message should be sent, and return
`GNUTLS_IA_FINAL_PHASE_FINISHED' (2) to indicate that an FinalPhaseFinished message should be sent. In the last two cases, the contents of the `next' and `nextlen' parameter is not used.

Note that the callback must use allocate the `next' parameter using
`gnutls_malloc()', because it is released via `gnutls_free()' by the TLS/IA handshake function.

gnutls_ia_set_server_avp_ptr

-- Function: void gnutls_ia_set_server_avp_ptr
(gnutls_ia_server_credentials_t CRED, void * PTR)
CRED: is a `gnutls_ia_client_credentials_t' structure.

PTR: is the pointer

Sets the pointer that will be provided to the TLS/IA callback function as the first argument.

gnutls_ia_verify_endphase

-- Function: int gnutls_ia_verify_endphase (gnutls_session_t SESSION,
const char * CHECKSUM)
SESSION: is a `gnutls_session_t' structure.

CHECKSUM: 12-byte checksum data, received from `gnutls_ia_recv()'.

Verify TLS/IA end phase checksum data. If verification fails, the
`GNUTLS_A_INNER_APPLICATION_VERIFICATION' alert is sent to the other side.

This function is called when `gnutls_ia_recv()' return
`GNUTLS_E_WARNING_IA_IPHF_RECEIVED' or
`GNUTLS_E_WARNING_IA_FPHF_RECEIVED'.

Return value: Return 0 on successful verification, or an error code. If the checksum verification of the end phase message fails, `GNUTLS_E_IA_VERIFY_FAILED' is returned.

File: gnutls.info, Node: Error codes and descriptions, Prev: TLS Inner Application (TLS/IA) functions, Up: Function reference

9.6 Error Codes and Descriptions

=====

The error codes used throughout the library are described below. The return code ``GNUTLS_E_SUCCESS'` indicate successful operation, and is guaranteed to have the value 0, so you can use it in logical expressions.

``GNUTLS_E_AGAIN:'`

Resource temporarily unavailable, try again.

``GNUTLS_E_ASN1_DER_ERROR:'`

ASN1 parser: Error in DER parsing.

``GNUTLS_E_ASN1_DER_OVERFLOW:'`

ASN1 parser: Overflow in DER parsing.

``GNUTLS_E_ASN1_ELEMENT_NOT_FOUND:'`

ASN1 parser: Element was not found.

``GNUTLS_E_ASN1_GENERIC_ERROR:'`

ASN1 parser: Generic parsing error.

``GNUTLS_E_ASN1_IDENTIFIER_NOT_FOUND:'`

ASN1 parser: Identifier was not found

``GNUTLS_E_ASN1_SYNTAX_ERROR:'`

ASN1 parser: Syntax error.

``GNUTLS_E_ASN1_TAG_ERROR:'`

ASN1 parser: Error in TAG.

``GNUTLS_E_ASN1_TAG_IMPLICIT:'`

ASN1 parser: error in implicit tag

``GNUTLS_E_ASN1_TYPE_ANY_ERROR:'`

ASN1 parser: Error in type 'ANY'.

``GNUTLS_E_ASN1_VALUE_NOT_FOUND:'`

ASN1 parser: Value was not found.

``GNUTLS_E_ASN1_VALUE_NOT_VALID:'`

ASN1 parser: Value is not valid.

``GNUTLS_E_BASE64_DECODING_ERROR:'`

Base64 decoding error.

``GNUTLS_E_BASE64_ENCODING_ERROR:'`

Base64 encoding error.

`GNUTLS_E_BASE64_UNEXPECTED_HEADER_ERROR:'

Base64 unexpected header error.

`GNUTLS_E_CERTIFICATE_ERROR:'

Error in the certificate.

`GNUTLS_E_CERTIFICATE_KEY_MISMATCH:'

The certificate and the given key do not match.

`GNUTLS_E_COMPRESSION_FAILED:'

Compression of the TLS record packet has failed.

`GNUTLS_E_CONSTRAINT_ERROR:'

Some constraint limits were reached.

`GNUTLS_E_CRYPTO_ALREADY_REGISTERED:'

There is already a crypto algorithm with lower priority.

`GNUTLS_E_DB_ERROR:'

Error in Database backend.

`GNUTLS_E_DECOMPRESSION_FAILED:'

Decompression of the TLS record packet has failed.

`GNUTLS_E_DECRYPTION_FAILED:'

Decryption has failed.

`GNUTLS_E_DH_PRIME_UNACCEPTABLE:'

The Diffie-Hellman prime sent by the server is not acceptable (not long enough).

`GNUTLS_E_ENCRYPTION_FAILED:'

Encryption has failed.

`GNUTLS_E_ERROR_IN_FINISHED_PACKET:'

An error was encountered at the TLS Finished packet calculation.

`GNUTLS_E_EXPIRED:'

The requested session has expired.

`GNUTLS_E_FATAL_ALERT_RECEIVED:'

A TLS fatal alert has been received.

`GNUTLS_E_FILE_ERROR:'

Error while reading file.

`GNUTLS_E_GOT_APPLICATION_DATA:'
TLS Application data were received, while expecting handshake data.

`GNUTLS_E_HANDSHAKE_TOO_LARGE:'
The handshake data size is too large (DoS?), check
gnutls_handshake_set_max_packet_length().

`GNUTLS_E_HASH_FAILED:'
Hashing has failed.

`GNUTLS_E_IA_VERIFY_FAILED:'
Verifying TLS/IA phase checksum failed

`GNUTLS_E_ILLEGAL_SRP_USERNAME:'
The SRP username supplied is illegal.

`GNUTLS_E_INCOMPATIBLE_GCRYPT_LIBRARY:'
The gcrypt library version is too old.

`GNUTLS_E_INCOMPATIBLE_LIBTASN1_LIBRARY:'
The tasn1 library version is too old.

`GNUTLS_E_INIT_LIBEXTRA:'
The initialization of GnuTLS-extra has failed.

`GNUTLS_E_INSUFFICIENT_CREDENTIALS:'
Insufficient credentials for that request.

`GNUTLS_E_INTERNAL_ERROR:'
GnuTLS internal error.

`GNUTLS_E_INTERRUPTED:'
Function was interrupted.

`GNUTLS_E_INVALID_PASSWORD:'
The given password contains invalid characters.

`GNUTLS_E_INVALID_REQUEST:'
The request is invalid.

`GNUTLS_E_INVALID_SESSION:'
The specified session has been invalidated for some reason.

`GNUTLS_E_KEY_USAGE_VIOLATION:'
Key usage violation in certificate has been detected.

`GNUTLS_E_LARGE_PACKET:'
A large TLS record packet was received.

`GNUTLS_E_LIBRARY_VERSION_MISMATCH:'
The GnuTLS library version does not match the GnuTLS-extra library version.

`GNUTLS_E_LZO_INIT_FAILED:'
The initialization of LZO has failed.

`GNUTLS_E_MAC_VERIFY_FAILED:'
The Message Authentication Code verification failed.

`GNUTLS_E_MEMORY_ERROR:'
Internal error in memory allocation.

`GNUTLS_E_MPI_PRINT_FAILED:'
Could not export a large integer.

`GNUTLS_E_MPI_SCAN_FAILED:'
The scanning of a large integer has failed.

`GNUTLS_E_NO_CERTIFICATE_FOUND:'
The peer did not send any certificate.

`GNUTLS_E_NO_CIPHER_SUITES:'
No supported cipher suites have been found.

`GNUTLS_E_NO_COMPRESSION_ALGORITHMS:'
No supported compression algorithms have been found.

`GNUTLS_E_NO_TEMPORARY_DH_PARAMS:'
No temporary DH parameters were found.

`GNUTLS_E_NO_TEMPORARY_RSA_PARAMS:'
No temporary RSA parameters were found.

`GNUTLS_E_OPENPGP_FINGERPRINT_UNSUPPORTED:'
The OpenPGP fingerprint is not supported.

`GNUTLS_E_OPENPGP_GETKEY_FAILED:'
Could not get OpenPGP key.

`GNUTLS_E_OPENPGP_KEYRING_ERROR:'
Error loading the keyring.

`GNUTLS_E_OPENPGP_SUBKEY_ERROR:'
Could not find OpenPGP subkey.

`GNUTLS_E_OPENPGP_UID_REVOKED:'

The OpenPGP User ID is revoked.

`GNUTLS_E_PKCS1_WRONG_PAD:'

Wrong padding in PKCS1 packet.

`GNUTLS_E_PK_DECRYPTION_FAILED:'

Public key decryption has failed.

`GNUTLS_E_PK_ENCRYPTION_FAILED:'

Public key encryption has failed.

`GNUTLS_E_PK_SIGN_FAILED:'

Public key signing has failed.

`GNUTLS_E_PK_SIG_VERIFY_FAILED:'

Public key signature verification has failed.

`GNUTLS_E_PULL_ERROR:'

Error in the pull function.

`GNUTLS_E_PUSH_ERROR:'

Error in the push function.

`GNUTLS_E_RANDOM_FAILED:'

Failed to acquire random data.

`GNUTLS_E_RECEIVED_ILLEGAL_EXTENSION:'

An illegal TLS extension was received.

`GNUTLS_E_RECEIVED_ILLEGAL_PARAMETER:'

An illegal parameter has been received.

`GNUTLS_E_RECORD_LIMIT_REACHED:'

The upper limit of record packet sequence numbers has been reached. Wow!

`GNUTLS_E_REHANDSHAKE:'

Rehandshake was requested by the peer.

`GNUTLS_E_REQUESTED_DATA_NOT_AVAILABLE:'

The requested data were not available.

`GNUTLS_E_SHORT_MEMORY_BUFFER:'

The given memory buffer is too short to hold parameters.

`GNUTLS_E_SRP_PWD_ERROR:'

Error in password file.

`GNUTLS_E_SRP_PWD_PARSING_ERROR:'
Parsing error in password file.

`GNUTLS_E_SUCCESS:'
Success.

`GNUTLS_E_TOO_MANY_EMPTY_PACKETS:'
Too many empty record packets have been received.

`GNUTLS_E_UNEXPECTED_HANDSHAKE_PACKET:'
An unexpected TLS handshake packet was received.

`GNUTLS_E_UNEXPECTED_PACKET:'
An unexpected TLS packet was received.

`GNUTLS_E_UNEXPECTED_PACKET_LENGTH:'
A TLS packet with unexpected length was received.

`GNUTLS_E_UNKNOWN_ALGORITHM:'
The specified algorithm or protocol is unknown.

`GNUTLS_E_UNKNOWN_CIPHER_SUITE:'
Could not negotiate a supported cipher suite.

`GNUTLS_E_UNKNOWN_CIPHER_TYPE:'
The cipher type is unsupported.

`GNUTLS_E_UNKNOWN_COMPRESSION_ALGORITHM:'
Could not negotiate a supported compression method.

`GNUTLS_E_UNKNOWN_HASH_ALGORITHM:'
The hash algorithm is unknown.

`GNUTLS_E_UNKNOWN_PKCS_BAG_TYPE:'
The PKCS structure's bag type is unknown.

`GNUTLS_E_UNKNOWN_PKCS_CONTENT_TYPE:'
The PKCS structure's content type is unknown.

`GNUTLS_E_UNKNOWN_PK_ALGORITHM:'
An unknown public key algorithm was encountered.

`GNUTLS_E_UNSUPPORTED_CERTIFICATE_TYPE:'
The certificate type is not supported.

`GNUTLS_E_UNSUPPORTED_VERSION_PACKET:'
A record packet with illegal version was received.

`GNUTLS_E_UNWANTED_ALGORITHM:'

An algorithm that is not enabled was negotiated.

`GNUTLS_E_WARNING_ALERT_RECEIVED:'

A TLS warning alert has been received.

`GNUTLS_E_WARNING_IA_FPHF_RECEIVED:'

Received a TLS/IA Final Phase Finished message

`GNUTLS_E_WARNING_IA_IPHF_RECEIVED:'

Received a TLS/IA Intermediate Phase Finished message

`GNUTLS_E_X509_UNKNOWN_SAN:'

Unknown Subject Alternative name in X.509 certificate.

`GNUTLS_E_X509_UNSUPPORTED_ATTRIBUTE:'

The certificate has unsupported attributes.

`GNUTLS_E_X509_UNSUPPORTED_CRITICAL_EXTENSION:'

Unsupported critical extension in X.509 certificate.

`GNUTLS_E_X509_UNSUPPORTED_OID:'

The OID is not supported.

File: gnutls.info, Node: All the supported ciphersuites in GnuTLS, Next: Guile Bindings, Prev: Function reference, Up: Top

10 All the Supported Ciphersuites in GnuTLS

Available cipher suites:

TLS_ANON_DH_ARCFOUR_MD5	0x00 0x18	SSL3.0
TLS_ANON_DH_3DES_EDE_CBC_SHA1	0x00 0x1b	SSL3.0
TLS_ANON_DH_AES_128_CBC_SHA1	0x00 0x34	SSL3.0
TLS_ANON_DH_AES_256_CBC_SHA1	0x00 0x3a	SSL3.0
TLS_ANON_DH_CAMELLIA_128_CBC_SHA1	0x00 0x46	TLS1.0
TLS_ANON_DH_CAMELLIA_256_CBC_SHA1	0x00 0x89	TLS1.0
TLS_PSK_SHA_ARCFOUR_SHA1	0x00 0x8a	TLS1.0
TLS_PSK_SHA_3DES_EDE_CBC_SHA1	0x00 0x8b	TLS1.0
TLS_PSK_SHA_AES_128_CBC_SHA1	0x00 0x8c	TLS1.0
TLS_PSK_SHA_AES_256_CBC_SHA1	0x00 0x8d	TLS1.0
TLS_DHE_PSK_SHA_ARCFOUR_SHA1	0x00 0x8e	TLS1.0
TLS_DHE_PSK_SHA_3DES_EDE_CBC_SHA1	0x00 0x8f	TLS1.0
TLS_DHE_PSK_SHA_AES_128_CBC_SHA1	0x00 0x90	TLS1.0
TLS_DHE_PSK_SHA_AES_256_CBC_SHA1	0x00 0x91	TLS1.0
TLS_SRP_SHA_3DES_EDE_CBC_SHA1	0xc0 0x1a	TLS1.0

TLS_SRP_SHA_AES_128_CBC_SHA1	0xc0 0x1d	TLS1.0
TLS_SRP_SHA_AES_256_CBC_SHA1	0xc0 0x20	TLS1.0
TLS_SRP_SHA_DSS_3DES_EDE_CBC_SHA1	0xc0 0x1c	TLS1.0
TLS_SRP_SHA_RSA_3DES_EDE_CBC_SHA1	0xc0 0x1b	TLS1.0
TLS_SRP_SHA_DSS_AES_128_CBC_SHA1	0xc0 0x1f	TLS1.0
TLS_SRP_SHA_RSA_AES_128_CBC_SHA1	0xc0 0x1e	TLS1.0
TLS_SRP_SHA_DSS_AES_256_CBC_SHA1	0xc0 0x22	TLS1.0
TLS_SRP_SHA_RSA_AES_256_CBC_SHA1	0xc0 0x21	TLS1.0
TLS_DHE_DSS_ARCFOUR_SHA1	0x00 0x66	TLS1.0
TLS_DHE_DSS_3DES_EDE_CBC_SHA1	0x00 0x13	SSL3.0
TLS_DHE_DSS_AES_128_CBC_SHA1	0x00 0x32	SSL3.0
TLS_DHE_DSS_AES_256_CBC_SHA1	0x00 0x38	SSL3.0
TLS_DHE_DSS_CAMELLIA_128_CBC_SHA1	0x00 0x44	TLS1.0
TLS_DHE_DSS_CAMELLIA_256_CBC_SHA1	0x00 0x87	TLS1.0
TLS_DHE_RSA_3DES_EDE_CBC_SHA1	0x00 0x16	SSL3.0
TLS_DHE_RSA_AES_128_CBC_SHA1	0x00 0x33	SSL3.0
TLS_DHE_RSA_AES_256_CBC_SHA1	0x00 0x39	SSL3.0
TLS_DHE_RSA_CAMELLIA_128_CBC_SHA1	0x00 0x45	TLS1.0
TLS_DHE_RSA_CAMELLIA_256_CBC_SHA1	0x00 0x88	TLS1.0
TLS_RSA_NULL_MD5	0x00 0x01	SSL3.0
TLS_RSA_EXPORT_ARCFOUR_40_MD5	0x00 0x03	SSL3.0
TLS_RSA_ARCFOUR_SHA1	0x00 0x05	SSL3.0
TLS_RSA_ARCFOUR_MD5	0x00 0x04	SSL3.0
TLS_RSA_3DES_EDE_CBC_SHA1	0x00 0x0a	SSL3.0
TLS_RSA_AES_128_CBC_SHA1	0x00 0x2f	SSL3.0
TLS_RSA_AES_256_CBC_SHA1	0x00 0x35	SSL3.0
TLS_RSA_CAMELLIA_128_CBC_SHA1	0x00 0x41	TLS1.0
TLS_RSA_CAMELLIA_256_CBC_SHA1	0x00 0x84	TLS1.0

Available certificate types:

* X.509

* OPENPGP

Available protocols:

* SSL3.0

* TLS1.0

* TLS1.1

* TLS1.2

Available ciphers:

* AES-256-CBC

* AES-128-CBC

* 3DES-CBC

* DES-CBC

* ARCFOUR-128

* ARCFOUR-40

* RC2-40

* CAMELLIA-256-CBC

* CAMELLIA-128-CBC

* NULL

Available MAC algorithms:

* SHA1

* MD5

* SHA256

* SHA384

* SHA512

* MD2

* RIPEMD160

* NULL

Available key exchange methods:

* ANON-DH

* RSA

* RSA-EXPORT

* DHE-RSA

* DHE-DSS

* SRP-DSS

* SRP-RSA

* SRP

* PSK

* DHE-PSK

Available public key algorithms:

* RSA

* DSA

Available public key signature algorithms:

* RSA-SHA

* RSA-SHA256

* RSA-SHA384

* RSA-SHA512

* RSA-RMD160

* DSA-SHA

* RSA-MD5

* RSA-MD2

Available compression methods:

* DEFLATE

* NULL

Some additional information regarding some of the algorithms:

`RSA'

RSA is public key cryptosystem designed by Ronald Rivest, Adi Shamir and Leonard Adleman. It can be used with any hash functions.

`DSA'

DSA is the USA's Digital Signature Standard. It uses only the SHA-1 hash algorithm.

`MD2'

MD2 is a cryptographic hash algorithm designed by Ron Rivest. It is optimized for 8-bit processors. Outputs 128 bits of data.

There are no known weaknesses of this algorithm but since this

algorithm is rarely used and not really studied it should not be used today.

`MD5'

MD5 is a cryptographic hash algorithm designed by Ron Rivest. Outputs 128 bits of data. It is considered to be broken.

`SHA-1'

SHA is a cryptographic hash algorithm designed by NSA. Outputs 160 bits of data. It is also considered to be broken, though no practical attacks have been found.

`RMD160'

RIPEMD is a cryptographic hash algorithm developed in the framework of the EU project RIPE. Outputs 160 bits of data.

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11 Guile Bindings

This chapter describes the GNU Guile (<http://www.gnu.org/software/guile/>) Scheme programming interface to GnuTLS. The reader is assumed to have basic knowledge of the protocol and library. Details missing from this chapter may be found in **note* the C API reference: *Function reference*.

At this stage, not all the C functions are available from Scheme, but a large subset thereof is available.

* Menu:

- * *Guile Preparations*:: Note on installation and environment.
- * *Guile API Conventions*:: Naming conventions and other idiosyncrasies.
- * *Guile Examples*:: Quick start.
- * *Guile Reference*:: The Scheme GnuTLS programming interface.

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11.1 Guile Preparations

=====

The GnuTLS Guile bindings are by default installed under the GnuTLS installation directory (e.g., typically

`~/usr/local/share/guile/site/'). Normally Guile will not find the module there without help. You may experience something like this:`

```
$ guile
guile> (use-modules (gnutls))
<unnamed port>: no code for module (gnutls)
guile>
```

There are two ways to solve this. The first is to make sure that when building GnuTLS, the Guile bindings will be installed in the same place where Guile looks. You may do this by using the `--with-guile-site-dir'` parameter as follows:

```
$ ./configure --with-guile-site-dir=no
```

This will instruct GnuTLS to attempt to install the Guile bindings where Guile will look for them. It will use ``guile-config info pkgdatadir'` to learn the path to use.

If Guile was installed into `~/usr'`, you may also install GnuTLS using the same prefix:

```
$ ./configure --prefix=/usr
```

If you want to specify the path to install the Guile bindings you can also specify the path directly:

```
$ ./configure --with-guile-site-dir=/opt/guile/share/guile/site
```

The second solution requires some more work but may be easier to use if you do not have system administrator rights to your machine. You need to instruct Guile so that it finds the GnuTLS Guile bindings. Either use the ``GUILE_LOAD_PATH'` environment variable as follows:

```
$ GUILE_LOAD_PATH="/usr/local/share/guile/site:$GUILE_LOAD_PATH" guile
guile> (use-modules (gnutls))
guile>
```

Alternatively, you can modify Guile's ``%load-path'` variable (*note Guile's run-time options: (guile)Build Config.).

At this point, you might get an error regarding ``libguile-gnutls-v-0'` similar to:

```
gnutls.scm:361:1: In procedure dynamic-link in expression (load-extension "libguile-gnutls-v-0"
"scm_init_gnutls"):
gnutls.scm:361:1: file: "libguile-gnutls-v-0", message: "libguile-gnutls-v-0.so: cannot open shared object file: No
such file or directory"
```

In this case, you will need to modify the run-time linker path, for example as follows:

```
$ LD_LIBRARY_PATH=/usr/local/lib GUILE_LOAD_PATH=/usr/local/share/guile/site guile
guile> (use-modules (gnutls))
guile>
```

File: gnutls.info, Node: Guile API Conventions, Next: Guile Examples, Prev: Guile Preparations, Up: Guile Bindings

11.2 Guile API Conventions

=====

This chapter details the conventions used by Guile API, as well as specificities of the mapping of the C API to Scheme.

* Menu:

- * Enumerates and Constants:: Representation of C-side constants.
- * Procedure Names:: Naming conventions.
- * Representation of Binary Data:: Binary data buffers.
- * Input and Output:: Input and output.
- * Exception Handling:: Exceptions.

File: gnutls.info, Node: Enumerates and Constants, Next: Procedure Names, Up: Guile API Conventions

11.2.1 Enumerates and Constants

Lots of enumerates and constants are used in the GnuTLS C API. For each C enumerate type, a disjoint Scheme type is used--thus, enumerate values and constants are not represented by Scheme symbols nor by integers. This makes it impossible to use an enumerate value of the wrong type on the Scheme side: such errors are automatically detected by type-checking.

The enumerate values are bound to variables exported by the `(gnutls)` and `(gnutls extra)` modules. These variables are named according to the following convention:

- * All variable names are lower-case; the underscore `_` character used in the C API is replaced by hyphen `-'.
- * All variable names are prepended by the name of the enumerate type and the slash `/` character.

* In some cases, the variable name is made more explicit than the one of the C API, e.g., by avoid abbreviations.

Consider for instance this C-side enumerate:

```
typedef enum
{
  GNUTLS_CRD_CERTIFICATE = 1,
  GNUTLS_CRD_ANON,
  GNUTLS_CRD_SRP,
  GNUTLS_CRD_PSK,
  GNUTLS_CRD_IA
} gnutls_credentials_type_t;
```

The corresponding Scheme values are bound to the following variables exported by the `(gnutls)` module:

```
credentials/certificate
credentials/anonymous
credentials/srp
credentials/psk
credentials/ia
```

Hopefully, most variable names can be deduced from this convention.

Scheme-side "enumerate" values can be compared using `eq?` (*note equality predicates: (guile)Equality.). Consider the following example:

```
(let ((session (make-session connection-end/client)))

  ;;
  ;; ...
  ;;

  ;; Check the ciphering algorithm currently used by SESSION.
  (if (eq? cipher/arcfour (session-cipher session))
      (format #t "We're using the ARCFOUR algorithm")))
```

In addition, all enumerate values can be converted to a human-readable string, in a type-specific way. For instance, `(cipher->string cipher/arcfour)` yields `"ARCFOUR 128"`, while `(key-usage->string key-usage/digital-signature)` yields `"digital-signature"`. Note that these strings may not be sufficient for use in a user interface since they are fairly concise and not internationalized.

File: gnutls.info, Node: Procedure Names, Next: Representation of Binary Data, Prev: Enumerates and Constants,

11.2.2 Procedure Names

Unlike C functions in GnuTLS, the corresponding Scheme procedures are named in a way that is close to natural English. Abbreviations are also avoided. For instance, the Scheme procedure corresponding to ``gnutls_certificate_set_dh_params'` is named ``set-certificate-credentials-dh-parameters!'`. The ``gnutls_'` prefix is always omitted from variable names since a similar effect can be achieved using Guile's nifty binding renaming facilities, should it be needed (*note Using Guile Modules: (guile)Using Guile Modules.).

Often Scheme procedure names differ from C function names in a way that makes it clearer what objects they operate on. For example, the Scheme procedure named ``set-session-transport-port!'` corresponds to ``gnutls_transport_set_ptr'`, making it clear that this procedure applies to session.

File: gnutls.info, Node: Representation of Binary Data, Next: Input and Output, Prev: Procedure Names, Up: Guile API Conventions

11.2.3 Representation of Binary Data

Many procedures operate on binary data. For instance, ``pkcs3-import-dh-parameters'` expects binary data as input and, similarly, procedures like ``pkcs1-export-rsa-parameters'` return binary data.

Binary data is represented on the Scheme side using SRFI-4 homogeneous vectors (*note SRFI-4: (guile)SRFI-4.). Although any type of homogeneous vector may be used, ``u8vector's` (i.e., vectors of bytes) are highly recommended.

As an example, generating and then exporting RSA parameters in the PEM format can be done as follows:

```
(let* ((rsa-params (make-rsa-parameters 1024))
      (raw-data
       (pkcs1-export-rsa-parameters rsa-params
                                   x509-certificate-format/pem)))
  (uniform-vector-write raw-data (open-output-file "some-file.pem")))
```

For an example of OpenPGP key import from a file, see *note Importing OpenPGP Keys Guile Example:.

11.2.4 Input and Output

The underlying transport of a TLS session can be any Scheme input/output port (*note Ports and File Descriptors: (guile)Ports and File Descriptors.). This has to be specified using ``set-session-transport-port!`.

However, for better performance, a raw file descriptor can be specified, using ``set-session-transport-fd!`. For instance, if the transport layer is a socket port over an OS-provided socket, you can use the ``port->fdes'` or ``fileno'` procedure to obtain the underlying file descriptor and pass it to ``set-session-transport-fd!` (*note ``port->fdes'` and ``fileno'`: (guile)Ports and File Descriptors.). This would work as follows:

```
(let ((socket (socket (socket PF_INET SOCK_STREAM 0))
                    (session (make-session connection-end/client)))

      ;;
      ;; Establish a TCP connection...
      ;;

      ;; Use the file descriptor that underlies SOCKET.
      (set-session-transport-fd! session (fileno socket)))
```

Once a TLS session is established, data can be communicated through it (i.e., `_via_` the TLS record layer) using the port returned by ``session-record-port!`:

```
(let ((session (make-session connection-end/client)))

      ;;
      ;; Initialize the various parameters of SESSION, set up
      ;; a network connection, etc...
      ;;

      (let ((i/o (session-record-port session))
            (write "Hello peer!" i/o)
            (let ((greetings (read i/o)))

                  ;; ...
```



```
(bye session close-request/rdwr))))
```

A lower-level I/O API is provided by ``record-send'` and ``record-receive!'` which take an SRFI-4 vector to represent the data sent or received. While it might improve performance, it is much less convenient than the above and should rarely be needed.

File: [gnutls.info](#), Node: Exception Handling, Prev: [Input and Output](#), Up: [Guile API Conventions](#)

11.2.5 Exception Handling

GnuTLS errors are implemented as Scheme exceptions (**note exceptions in Guile: (guile)Exceptions.*). Each time a GnuTLS function returns an error, an exception with key ``gnutls-error'` is raised. The additional arguments that are thrown include an error code and the name of the GnuTLS procedure that raised the exception. The error code is pretty much like an enumerate value: it is one of the ``error/'` variables exported by the ``(gnutls)'` module (**note Enumerates and Constants:.*). Exceptions can be turned into error messages using the ``error->string'` procedure.

The following examples illustrates how GnuTLS exceptions can be handled:

```
(let ((session (make-session connection-end/server)))

  ;;
  ;; ...
  ;;

  (catch 'gnutls-error
    (lambda ()
      (handshake session))
    (lambda (key err function . currently-unused)
      (format (current-error-port)
              "a GnuTLS error was raised by `~a': ~a~%"
              function (error->string err))))))
```

Again, error values can be compared using ``eq?'`:

```
;; `gnutls-error' handler.
(lambda (key err function . currently-unused)
  (if (eq? err error/fatal-alert-received)
      (format (current-error-port)
              "a fatal alert was caught!~%")
      (format (current-error-port)
              "something bad happened: ~a~%"))
```

```
(error->string err))))
```

Note that the `catch` handler is currently passed only 3 arguments but future versions might provide it with additional arguments. Thus, it must be prepared to handle more than 3 arguments, as in this example.

File: gnutls.info, Node: Guile Examples, Next: Guile Reference, Prev: Guile API Conventions, Up: Guile Bindings

11.3 Guile Examples

```
=====
```

This chapter provides examples that illustrate common use cases.

* Menu:

- * Anonymous Authentication Guile Example:: Simplest client and server.
- * OpenPGP Authentication Guile Example:: Using OpenPGP-based authentication.
- * Importing OpenPGP Keys Guile Example:: Importing keys from files.

File: gnutls.info, Node: Anonymous Authentication Guile Example, Next: OpenPGP Authentication Guile Example, Up: Guile Examples

11.3.1 Anonymous Authentication Guile Example

```
-----
```

"Anonymous authentication" is very easy to use. No certificates are needed by the communicating parties. Yet, it allows them to benefit from end-to-end encryption and integrity checks.

The client-side code would look like this (assuming SOME-SOCKET is bound to an open socket port):

```
;; Client-side.

(let ((client (make-session connection-end/client)))
  ;; Use the default settings.
  (set-session-default-priority! client)

  ;; Don't use certificate-based authentication.
  (set-session-certificate-type-priority! client '())

  ;; Request the "anonymous Diffie-Hellman" key exchange method.
  (set-session-kx-priority! client (list kx/anon-dh))

  ;; Specify the underlying socket.
```

```

(set-session-transport-fd! client (fileno some-socket))

;; Create anonymous credentials.
(set-session-credentials! client
  (make-anonymous-client-credentials))

;; Perform the TLS handshake with the server.
(handshake client)

;; Send data over the TLS record layer.
(write "hello, world!" (session-record-port client))

;; Terminate the TLS session.
(bye client close-request/rdwr))

```

The corresponding server would look like this (again, assuming SOME-SOCKET is bound to a socket port):

```

;; Server-side.

(let ((server (make-session connection-end/server)))
  (set-session-default-priority! server)
  (set-session-certificate-type-priority! server '())
  (set-session-kx-priority! server (list kx/anon-dh))

  ;; Specify the underlying transport socket.
  (set-session-transport-fd! server (fileno some-socket))

  ;; Create anonymous credentials.
  (let ((cred (make-anonymous-server-credentials))
        (dh-params (make-dh-parameters 1024)))
    ;; Note: DH parameter generation can take some time.
    (set-anonymous-server-dh-parameters! cred dh-params)
    (set-session-credentials! server cred))

  ;; Perform the TLS handshake with the client.
  (handshake server)

  ;; Receive data over the TLS record layer.
  (let ((message (read (session-record-port server))))
    (format #t "received the following message: ~a~%"
      message)

    (bye server close-request/rdwr)))

```

This is it!

11.3.2 OpenPGP Authentication Guile Example

GnuTLS allows users to authenticate using OpenPGP certificates. The relevant procedures are provided by the `(gnutls extra)' module. Using OpenPGP-based authentication is not more complicated than using anonymous authentication. It requires a bit of extra work, though, to import the OpenPGP public and private key of the client/server. Key import is omitted here and is left as an exercise to the reader (*note Importing OpenPGP Keys Guile Example:).

Assuming SOME-SOCKET is bound to an open socket port and PUB and SEC are bound to the client's OpenPGP public and secret key, respectively, client-side code would look like this:

```
;; Client-side.

(define %certs (list certificate-type/openpgp))

(let ((client (make-session connection-end/client))
      (cred (make-certificate-credentials)))
  (set-session-default-priority! client)

  ;; Choose OpenPGP certificates.
  (set-session-certificate-type-priority! client %certs)

  ;; Prepare appropriate client credentials.
  (set-certificate-credentials-openpgp-keys! cred pub sec)
  (set-session-credentials! client cred)

  ;; Specify the underlying transport socket.
  (set-session-transport-fd! client (fileno some-socket))

  (handshake client)
  (write "hello, world!" (session-record-port client))
  (bye client close-request/rdwr))
```

Similarly, server-side code would be along these lines:

```
;; Server-side.

(define %certs (list certificate-type/openpgp))

(let ((server (make-session connection-end/server))
      (rsa (make-rsa-parameters 1024)))
```

```

(dh (make-dh-parameters 1024))
(set-session-default-priority! server)

;; Choose OpenPGP certificates.
(set-session-certificate-type-priority! server %certs)

(let ((cred (make-certificate-credentials)))
  ;; Prepare credentials with RSA and Diffie-Hellman parameters.
  (set-certificate-credentials-dh-parameters! cred dh)
  (set-certificate-credentials-rsa-export-parameters! cred rsa)
  (set-certificate-credentials-openpgp-keys! cred pub sec)
  (set-session-credentials! server cred))

(set-session-transport-fd! server (fileno some-socket))

(handshake server)
(let ((msg (read (session-record-port server))))
  (format #t "received: ~a~%" msg)

  (bye server close-request/rdwr)))

```

In practice, generating RSA parameters (and Diffie-Hellman parameters) can take a long time. Thus, you may want to generate them once and store them in a file for future re-use (*note ``pkcs1-export-rsa-parameters'` and ``pkcs1-import-rsa-parameters'`: Core Interface.).

File: [gnutls.info](#), Node: [Importing OpenPGP Keys Guile Example](#), Prev: [OpenPGP Authentication Guile Example](#), Up: [Guile Examples](#)

11.3.3 Importing OpenPGP Keys Guile Example

The following example provides a simple way of importing "ASCII-armored" OpenPGP keys from files, using the ``import-openpgp-certificate'` and ``import-openpgp-private-key'` procedures provided by the ``(gnutls extra)'` module.

```

(use-modules (srfi srfi-4)
  (gnutls extra))

(define (import-key-from-file import-proc file)
  ;; Import OpenPGP key from FILE using IMPORT-PROC.

  ;; Prepare a u8vector large enough to hold the raw
  ;; key contents.
  (let* ((size (stat:size (stat path))))

```

```

(raw (make-u8vector size)))

;; Fill in the u8vector with the contents of FILE.
(uniform-vector-read! raw (open-input-file file))

;; Pass the u8vector to the import procedure.
(import-proc raw openpgp-certificate-format/base64)))

(define (import-public-key-from-file file)
  (import-key-from-file import-openpgp-certificate file))

(define (import-private-key-from-file file)
  (import-key-from-file import-openpgp-private-key file))

```

The procedures ``import-public-key-from-file'` and ``import-private-key-from-file'` can be passed a file name. They return an OpenPGP public key and private key object, respectively (*note OpenPGP key objects: Extra Interface.).

File: gnutils.info, Node: Guile Reference, Prev: Guile Examples, Up: Guile Bindings

11.4 Guile Reference

=====

This chapter documents GnuTLS Scheme procedures available to Guile programmers.

* Menu:

- * Core Interface:: Bindings for core GnuTLS.
- * Extra Interface:: Bindings for GnuTLS-Extra.

File: gnutils.info, Node: Core Interface, Next: Extra Interface, Up: Guile Reference

11.4.1 Core Interface

This section lists the Scheme procedures exported by the ``(gnutils)'` module (*note The Guile module system: (guile)The Guile module system.). This module is licenced under the GNU Lesser General Public Licence, version 2.1 or later.

-- Scheme Procedure: `set-log-level! level`
 Enable GnuTLS logging up to LEVEL (an integer).

- Scheme Procedure: set-log-procedure! proc
Use PROC (a two-argument procedure) as the global GnuTLS log procedure.

- Scheme Procedure: x509-certificate-subject-alternative-name cert index
Return two values: the alternative name type for CERT (i.e., one of the `x509-subject-alternative-name/' values) and the actual subject alternative name (a string) at INDEX. Both values are `#' if no alternative name is available at INDEX.

- Scheme Procedure: x509-certificate-subject-key-id cert
Return the subject key ID (a u8vector) for CERT.

- Scheme Procedure: x509-certificate-authority-key-id cert
Return the key ID (a u8vector) of the X.509 certificate authority of CERT.

- Scheme Procedure: x509-certificate-key-id cert
Return a statistically unique ID (a u8vector) for CERT that depends on its public key parameters. This is normally a 20-byte SHA-1 hash.

- Scheme Procedure: x509-certificate-version cert
Return the version of CERT.

- Scheme Procedure: x509-certificate-key-usage cert
Return the key usage of CERT (i.e., a list of `key-usage/' values), or the empty list if CERT does not contain such information.

- Scheme Procedure: x509-certificate-public-key-algorithm cert
Return two values: the public key algorithm (i.e., one of the `pk-algorithm/' values) of CERT and the number of bits used.

- Scheme Procedure: x509-certificate-signature-algorithm cert
Return the signature algorithm used by CERT (i.e., one of the `sign-algorithm/' values).

- Scheme Procedure: x509-certificate-matches-hostname? cert hostname
Return true if CERT matches HOSTNAME, a string denoting a DNS host name. This is the basic implementation of RFC 2818 (<http://tools.ietf.org/html/rfc2818>) (aka. HTTPS).

- Scheme Procedure: x509-certificate-issuer-dn-oid cert index
Return the OID (a string) at INDEX from CERT's issuer DN. Return `#' if no OID is available at INDEX.

- Scheme Procedure: x509-certificate-dn-oid cert index
Return OID (a string) at INDEX from CERT. Return `#f` if no OID is available at INDEX.
- Scheme Procedure: x509-certificate-issuer-dn cert
Return the distinguished name (DN) of X.509 certificate CERT.
- Scheme Procedure: x509-certificate-dn cert
Return the distinguished name (DN) of X.509 certificate CERT. The form of the DN is as described in RFC 2253 (<http://tools.ietf.org/html/rfc2253>).
- Scheme Procedure: pkcs8-import-x509-private-key data format [pass [encrypted]]
Return a new X.509 private key object resulting from the import of DATA (a uniform array) according to FORMAT. Optionally, if PASS is not `#f`, it should be a string denoting a passphrase. ENCRYPTED tells whether the private key is encrypted (`#t` by default).
- Scheme Procedure: import-x509-private-key data format
Return a new X.509 private key object resulting from the import of DATA (a uniform array) according to FORMAT.
- Scheme Procedure: import-x509-certificate data format
Return a new X.509 certificate object resulting from the import of DATA (a uniform array) according to FORMAT.
- Scheme Procedure: server-session-psk-username session
Return the username associated with PSK server session SESSION.
- Scheme Procedure: set-psk-client-credentials! cred username key key-format
Set the client credentials for CRED, a PSK client credentials object.
- Scheme Procedure: make-psk-client-credentials
Return a new PSK client credentials object.
- Scheme Procedure: set-psk-server-credentials-file! cred file
Use FILE as the password file for PSK server credentials CRED.
- Scheme Procedure: make-psk-server-credentials
Return new PSK server credentials.
- Scheme Procedure: peer-certificate-status session
Verify the peer certificate for SESSION and return a list of `certificate-status` values (such as

- ``certificate-status/revoked'`), or the empty list if the certificate is valid.
- Scheme Procedure: `set-certificate-credentials-verify-flags!` cred
[flags...]
Set the certificate verification flags to `FLAGS`, a series of ``certificate-verify'` values.
 - Scheme Procedure: `set-certificate-credentials-verify-limits!` cred
max-bits max-depth
Set the verification limits of ``peer-certificate-status'` for certificate credentials `CRED` to `MAX_BITS` bits for an acceptable certificate and `MAX_DEPTH` as the maximum depth of a certificate chain.
 - Scheme Procedure: `set-certificate-credentials-x509-keys!` cred certs
privkey
Have certificate credentials `CRED` use the X.509 certificates listed in `CERTS` and X.509 private key `PRIVKEY`.
 - Scheme Procedure: `set-certificate-credentials-x509-key-data!` cred
cert key format
Use X.509 certificate `CERT` and private key `KEY`, both uniform arrays containing the X.509 certificate and key in format `FORMAT`, for certificate credentials `CRED`.
 - Scheme Procedure: `set-certificate-credentials-x509-crl-data!` cred
data format
Use `DATA` (a uniform array) as the X.509 CRL (certificate revocation list) database for `CRED`. On success, return the number of CRLs processed.
 - Scheme Procedure: `set-certificate-credentials-x509-trust-data!` cred
data format
Use `DATA` (a uniform array) as the X.509 trust database for `CRED`. On success, return the number of certificates processed.
 - Scheme Procedure: `set-certificate-credentials-x509-crl-file!` cred
file format
Use `FILE` as the X.509 CRL (certificate revocation list) file for certificate credentials `CRED`. On success, return the number of CRLs processed.
 - Scheme Procedure: `set-certificate-credentials-x509-trust-file!` cred
file format
Use `FILE` as the X.509 trust file for certificate credentials `CRED`. On success, return the number of certificates processed.

- Scheme Procedure: set-certificate-credentials-x509-key-files! cred
cert-file key-file format
Use FILE as the password file for PSK server credentials CRED.
- Scheme Procedure:
set-certificate-credentials-rsa-export-parameters! cred
rsa-params
Use RSA parameters RSA_PARAMS for certificate credentials CRED.
- Scheme Procedure: set-certificate-credentials-dh-parameters! cred
dh-params
Use Diffie-Hellman parameters DH_PARAMS for certificate credentials CRED.
- Scheme Procedure: make-certificate-credentials
Return new certificate credentials (i.e., for use with either X.509 or OpenPGP certificates).
- Scheme Procedure: pkcs1-export-rsa-parameters rsa-params format
Export Diffie-Hellman parameters RSA_PARAMS in PKCS1 format according for FORMAT (an `x509-certificate-format' value). Return a `u8vector' containing the result.
- Scheme Procedure: pkcs1-import-rsa-parameters array format
Import Diffie-Hellman parameters in PKCS1 format (further specified by FORMAT, an `x509-certificate-format' value) from ARRAY (a homogeneous array) and return a new `rsa-params' object.
- Scheme Procedure: make-rsa-parameters bits
Return new RSA parameters.
- Scheme Procedure: set-anonymous-server-dh-parameters! cred dh-params
Set the Diffie-Hellman parameters of anonymous server credentials CRED.
- Scheme Procedure: make-anonymous-client-credentials
Return anonymous client credentials.
- Scheme Procedure: make-anonymous-server-credentials
Return anonymous server credentials.
- Scheme Procedure: set-session-dh-prime-bits! session bits
Use BITS DH prime bits for SESSION.
- Scheme Procedure: pkcs3-export-dh-parameters dh-params format
Export Diffie-Hellman parameters DH_PARAMS in PKCS3 format according for FORMAT (an `x509-certificate-format' value). Return a `u8vector' containing the result.

- Scheme Procedure: pkcs3-import-dh-parameters array format
 Import Diffie-Hellman parameters in PKCS3 format (further specified by FORMAT, an `x509-certificate-format' value) from ARRAY (a homogeneous array) and return a new `dh-params' object.

- Scheme Procedure: make-dh-parameters bits
 Return new Diffie-Hellman parameters.

- Scheme Procedure: set-session-transport-port! session port
 Use PORT as the input/output port for SESSION.

- Scheme Procedure: set-session-transport-fd! session fd
 Use file descriptor FD as the underlying transport for SESSION.

- Scheme Procedure: session-record-port session
 Return a read-write port that may be used to communicate over SESSION. All invocations of `session-port' on a given session return the same object (in the sense of `eq?').

- Scheme Procedure: record-receive! session array
 Receive data from SESSION into ARRAY, a uniform homogeneous array. Return the number of bytes actually received.

- Scheme Procedure: record-send session array
 Send the record constituted by ARRAY through SESSION.

- Scheme Procedure: set-session-credentials! session cred
 Use CRED as SESSION's credentials.

- Scheme Procedure: cipher-suite->string kx cipher mac
 Return the name of the given cipher suite.

- Scheme Procedure: set-session-default-export-priority! session
 Have SESSION use the default export priorities.

- Scheme Procedure: set-session-default-priority! session
 Have SESSION use the default priorities.

- Scheme Procedure: set-session-certificate-type-priority! session items
 Use ITEMS (a list) as the list of preferred certificate-type for SESSION.

- Scheme Procedure: set-session-protocol-priority! session items
 Use ITEMS (a list) as the list of preferred protocol for SESSION.

- Scheme Procedure: set-session-kx-priority! session items

- Use ITEMS (a list) as the list of preferred kx for SESSION.
- Scheme Procedure: set-session-compression-method-priority! session items
Use ITEMS (a list) as the list of preferred compression-method for SESSION.
 - Scheme Procedure: set-session-mac-priority! session items
Use ITEMS (a list) as the list of preferred mac for SESSION.
 - Scheme Procedure: set-session-cipher-priority! session items
Use ITEMS (a list) as the list of preferred cipher for SESSION.
 - Scheme Procedure: set-server-session-certificate-request! session request
Tell how SESSION, a server-side session, should deal with certificate requests. REQUEST should be either ``certificate-request/request'` or ``certificate-request/require'`.
 - Scheme Procedure: session-our-certificate-chain session
Return our certificate chain for SESSION (as sent to the peer) in raw format (a u8vector). In the case of OpenPGP there is exactly one certificate. Return the empty list if no certificate was used.
 - Scheme Procedure: session-peer-certificate-chain session
Return the a list of certificates in raw format (u8vectors) where the first one is the peer's certificate. In the case of OpenPGP, there is always exactly one certificate. In the case of X.509, subsequent certificates indicate form a certificate chain. Return the empty list if no certificate was sent.
 - Scheme Procedure: session-client-authentication-type session
Return the client authentication type (a ``credential-type'` value) used in SESSION.
 - Scheme Procedure: session-server-authentication-type session
Return the server authentication type (a ``credential-type'` value) used in SESSION.
 - Scheme Procedure: session-authentication-type session
Return the authentication type (a ``credential-type'` value) used by SESSION.
 - Scheme Procedure: session-protocol session
Return the protocol used by SESSION.
 - Scheme Procedure: session-certificate-type session
Return SESSION's certificate type.

- Scheme Procedure: session-compression-method session
Return SESSION's compression method.
- Scheme Procedure: session-mac session
Return SESSION's MAC.
- Scheme Procedure: session-kx session
Return SESSION's kx.
- Scheme Procedure: session-cipher session
Return SESSION's cipher.
- Scheme Procedure: alert-send session level alert
Send ALERT via SESSION.
- Scheme Procedure: alert-get session
Get an alert from SESSION.
- Scheme Procedure: rehandshake session
Perform a re-handshaking for SESSION.
- Scheme Procedure: handshake session
Perform a handshake for SESSION.
- Scheme Procedure: bye session how
Close SESSION according to HOW.
- Scheme Procedure: make-session end
Return a new session for connection end END, either
`connection-end/server' or `connection-end/client'.
- Scheme Procedure: gnutls-version
Return a string denoting the version number of the underlying
GnuTLS library, e.g., `1.7.2'.
- Scheme Procedure: x509-private-key? obj
Return true if OBJ is of type `x509-private-key'.
- Scheme Procedure: x509-certificate? obj
Return true if OBJ is of type `x509-certificate'.
- Scheme Procedure: psk-client-credentials? obj
Return true if OBJ is of type `psk-client-credentials'.
- Scheme Procedure: psk-server-credentials? obj
Return true if OBJ is of type `psk-server-credentials'.

- Scheme Procedure: srp-client-credentials? obj
Return true if OBJ is of type `srp-client-credentials'.
- Scheme Procedure: srp-server-credentials? obj
Return true if OBJ is of type `srp-server-credentials'.
- Scheme Procedure: certificate-credentials? obj
Return true if OBJ is of type `certificate-credentials'.
- Scheme Procedure: rsa-parameters? obj
Return true if OBJ is of type `rsa-parameters'.
- Scheme Procedure: dh-parameters? obj
Return true if OBJ is of type `dh-parameters'.
- Scheme Procedure: anonymous-server-credentials? obj
Return true if OBJ is of type `anonymous-server-credentials'.
- Scheme Procedure: anonymous-client-credentials? obj
Return true if OBJ is of type `anonymous-client-credentials'.
- Scheme Procedure: session? obj
Return true if OBJ is of type `session'.
- Scheme Procedure: error->string enumval
Return a string describing ENUMVAL, a `error' value.
- Scheme Procedure: certificate-verify->string enumval
Return a string describing ENUMVAL, a `certificate-verify' value.
- Scheme Procedure: key-usage->string enumval
Return a string describing ENUMVAL, a `key-usage' value.
- Scheme Procedure: psk-key-format->string enumval
Return a string describing ENUMVAL, a `psk-key-format' value.
- Scheme Procedure: sign-algorithm->string enumval
Return a string describing ENUMVAL, a `sign-algorithm' value.
- Scheme Procedure: pk-algorithm->string enumval
Return a string describing ENUMVAL, a `pk-algorithm' value.
- Scheme Procedure: x509-subject-alternative-name->string enumval
Return a string describing ENUMVAL, a
`x509-subject-alternative-name' value.
- Scheme Procedure: x509-certificate-format->string enumval
Return a string describing ENUMVAL, a `x509-certificate-format'

value.

- Scheme Procedure: certificate-type->string enumval
Return a string describing ENUMVAL, a `certificate-type' value.
- Scheme Procedure: protocol->string enumval
Return a string describing ENUMVAL, a `protocol' value.
- Scheme Procedure: close-request->string enumval
Return a string describing ENUMVAL, a `close-request' value.
- Scheme Procedure: certificate-request->string enumval
Return a string describing ENUMVAL, a `certificate-request' value.
- Scheme Procedure: certificate-status->string enumval
Return a string describing ENUMVAL, a `certificate-status' value.
- Scheme Procedure: handshake-description->string enumval
Return a string describing ENUMVAL, a `handshake-description' value.
- Scheme Procedure: alert-description->string enumval
Return a string describing ENUMVAL, a `alert-description' value.
- Scheme Procedure: alert-level->string enumval
Return a string describing ENUMVAL, a `alert-level' value.
- Scheme Procedure: connection-end->string enumval
Return a string describing ENUMVAL, a `connection-end' value.
- Scheme Procedure: compression-method->string enumval
Return a string describing ENUMVAL, a `compression-method' value.
- Scheme Procedure: digest->string enumval
Return a string describing ENUMVAL, a `digest' value.
- Scheme Procedure: mac->string enumval
Return a string describing ENUMVAL, a `mac' value.
- Scheme Procedure: credentials->string enumval
Return a string describing ENUMVAL, a `credentials' value.
- Scheme Procedure: params->string enumval
Return a string describing ENUMVAL, a `params' value.
- Scheme Procedure: kx->string enumval
Return a string describing ENUMVAL, a `kx' value.

-- Scheme Procedure: cipher->string enumval
Return a string describing ENUMVAL, a `cipher' value.

File: gnutils.info, Node: Extra Interface, Prev: Core Interface, Up: Guile Reference

11.4.2 Extra Interface

This section lists the Scheme procedures exported by the `(gnutils extra)' module. This module is licenced under the GNU General Public Licence, version 3 or later.

-- Scheme Procedure: set-certificate-credentials-openpgp-keys! cred
pub sec
Use certificate PUB and secret key SEC in certificate credentials CRED.

-- Scheme Procedure: openpgp-keyring-contains-key-id? keyring id
Return `#f' if key ID ID is in KEYRING, `#f' otherwise.

-- Scheme Procedure: import-openpgp-keyring data format
Import DATA (a u8vector) according to FORMAT and return the imported keyring.

-- Scheme Procedure: openpgp-certificate-usage key
Return a list of values denoting the key usage of KEY.

-- Scheme Procedure: openpgp-certificate-version key
Return the version of the OpenPGP message format (RFC2440) honored by KEY.

-- Scheme Procedure: openpgp-certificate-algorithm key
Return two values: the certificate algorithm used by KEY and the number of bits used.

-- Scheme Procedure: openpgp-certificate-names key
Return the list of names for KEY.

-- Scheme Procedure: openpgp-certificate-name key index
Return the INDEXth name of KEY.

-- Scheme Procedure: openpgp-certificate-fingerprint key
Return a new u8vector denoting the fingerprint of KEY.

-- Scheme Procedure: openpgp-certificate-fingerprint! key fpr
Store in FPR (a u8vector) the fingerprint of KEY. Return the number of bytes stored in FPR.

- Scheme Procedure: openpgp-certificate-id! key id
Store the ID (an 8 byte sequence) of certificate KEY in ID (a u8vector).

- Scheme Procedure: openpgp-certificate-id key
Return the ID (an 8-element u8vector) of certificate KEY.

- Scheme Procedure: import-openpgp-private-key data format [pass]
Return a new OpenPGP private key object resulting from the import of DATA (a uniform array) according to FORMAT. Optionally, a passphrase may be provided.

- Scheme Procedure: import-openpgp-certificate data format
Return a new OpenPGP certificate object resulting from the import of DATA (a uniform array) according to FORMAT.

- Scheme Procedure: openpgp-certificate-format->string enumval
Return a string describing ENUMVAL, a `openpgp-certificate-format' value.

- Scheme Procedure: openpgp-keyring? obj
Return true if OBJ is of type `openpgp-keyring'.

- Scheme Procedure: openpgp-private-key? obj
Return true if OBJ is of type `openpgp-private-key'.

- Scheme Procedure: openpgp-certificate? obj
Return true if OBJ is of type `openpgp-certificate'.

File: gnutls.info, Node: Internal architecture of GnuTLS, Next: Copying Information, Prev: Guile Bindings, Up: Top

12 Internal Architecture of GnuTLS

This chapter is to give a brief description of the way GnuTLS works. The focus is to give an idea to potential developers and those who want to know what happens inside the black box.

* Menu:

- * The TLS Protocol::
- * TLS Handshake Protocol::
- * TLS Authentication Methods::
- * TLS Extension Handling::
- * Cryptographic Backend::

12.1 The TLS Protocol

=====

The main needs for the TLS protocol to be used are shown in the image below.

[image src="gnutls-client-server-use-case.png"]

This is being accomplished by the following object diagram. Note that since GnuTLS is being developed in C object are just structures with attributes. The operations listed are functions that require the first parameter to be that object. [image src="gnutls-objects.png"]

12.2 TLS Handshake Protocol

=====

The GnuTLS handshake protocol is implemented as a state machine that waits for input or returns immediately when the non-blocking transport layer functions are used. The main idea is shown in the following figure.

[image src="gnutls-handshake-state.png"]

Also the way the input is processed varies per ciphersuite. Several implementations of the internal handlers are available and *note gnutls_handshake:: only multiplexes the input to the appropriate handler. For example a PSK ciphersuite has a different implementation of the `process_client_key_exchange` than a certificate ciphersuite.

[image src="gnutls-handshake-sequence.png"]

12.3 TLS Authentication Methods

=====

In GnuTLS authentication methods can be implemented quite easily. Since the required changes to add a new authentication method affect

only the handshake protocol, a simple interface is used. An authentication method needs only to implement the functions as seen in the figure below.

[image src="gnutls-mod_auth_st.png"]

The functions that need to be implemented are the ones responsible for interpreting the handshake protocol messages. It is common for such functions to read data from one or more ``credentials_t'` structures(1) and write data, such as certificates, usernames etc. to ``auth_info_t'` structures.

Simple examples of existing authentication methods can be seen in ``auth_psk.c'` for PSK ciphersuites and ``auth_srp.c'` for SRP ciphersuites. After implementing these functions the structure holding its pointers has to be registered in ``gnutls_algorithms.c'` in the ``_gnutls_kx_algorithms'` structure.

----- Footnotes -----

(1) such as the ``gnutls_certificate_credentials_t'` structures

File: gnutls.info, Node: TLS Extension Handling, Next: Cryptographic Backend, Prev: TLS Authentication Methods, Up: Internal architecture of GnuTLS

12.4 TLS Extension Handling

=====

As with authentication methods, the TLS extensions handlers can be implemented using the following interface.

[image src="gnutls-extensions_st.png"]

Here there are two functions, one for receiving the extension data and one for sending. These functions have to check internally whether they operate in client or server side.

A simple example of an extension handler can be seen in ``ext_srp.c'` After implementing these functions, together with the extension number they handle, they have to be registered in ``gnutls_extensions.c'` in the ``_gnutls_extensions'` structure.

12.4.1 Adding a New TLS Extension

Adding support for a new TLS extension is done from time to time, and the process to do so is not difficult. Here are the steps you need to

follow if you wish to do this yourself. For sake of discussion, let's consider adding support for the hypothetical TLS extension `foobar`.

1. Modify `configure.in` to add `--enable-foobar` or `--disable-foobar`.

Which to chose depends on whether you intend to make the extension be enabled by default. Look at existing checks (i.e., SRP, authz) for how to model the code. For example:

```
AC_MSG_CHECKING([whether to disable foobar support])
AC_ARG_ENABLE(foobar,
  AS_HELP_STRING([--disable-foobar],
    [disable foobar support]),
  ac_enable_foobar=no)
if test x$ac_enable_foobar != xno; then
  AC_MSG_RESULT(no)
  AC_DEFINE(ENABLE_FOOBAR, 1, [enable foobar])
else
  ac_full=0
  AC_MSG_RESULT(yes)
fi
AM_CONDITIONAL(ENABLE_FOOBAR, test "$ac_enable_foobar" != "no")
```

2. Add IANA extension value to `extensions_t` in `gnutls_int.h`.

A good name for the value would be GNUTLS_EXTENSION_FOOBAR. Check with <http://www.iana.org/assignments/tls-extensiontype-values> for allocated values. For experiments, you could pick a number but remember that some consider it a bad idea to deploy such modified version since it will lead to interoperability problems in the future when the IANA allocates that number to someone else, or when the foobar protocol is allocated another number.

3. Add an entry to `_gnutls_extensions` in `gnutls_extensions.c`.

A typical entry would be:

```
#if ENABLE_FOOBAR
  GNUTLS_EXTENSION_ENTRY (GNUTLS_EXTENSION_FOOBAR,
    _gnutls_foobar_recv_params,
    _gnutls_foobar_send_params),
#endif
```

The GNUTLS_EXTENSION_FOOBAR is the integer value you added to `gnutls_int.h` earlier. The two functions are new functions that you will need to implement, most likely you'll need to add an `#include "ext_foobar.h"` as well.

4. Add new files ``ext_foobar.c'` and ``ext_foobar.h'` that implements the extension.

The functions you are responsible to add are those mentioned in the previous step. As a starter, you could add this:

```
int
_gnutls_foobar_recv_params (gnutls_session_t session,
                           const opaque * data,
                           size_t data_size)
{
    return 0;
}

int
_gnutls_foobar_send_params (gnutls_session_t session,
                           opaque * data,
                           size_t _data_size)
{
    return 0;
}
```

The ``_gnutls_foobar_recv_params'` function is responsible for parsing incoming extension data (both in the client and server).

The ``_gnutls_foobar_send_params'` function is responsible for sending extension data (both in the client and server).

If you receive length fields that doesn't match, return ``GNUTLS_E_UNEXPECTED_PACKET_LENGTH'`. If you receive invalid data, return ``GNUTLS_E_RECEIVED_ILLEGAL_PARAMETER'`. You can use other error codes too. Return 0 on success.

The function typically store some information in the ``session'` variable for later usage. If you need to add new fields there, check ``tls_ext_st'` in ``gnutls_int.h'` and compare with existing TLS extension specific variables.

Recall that both the client and server both send and receives parameters, and your code most likely will need to do different things depending on which mode it is in. It may be useful to make this distinction explicit in the code. Thus, for example, a better template than above would be:

```
int
_gnutls_foobar_recv_params (gnutls_session_t session,
                           const opaque * data,
```

```

        size_t data_size)
    {
        if (session->security_parameters.entity == GNUTLS_CLIENT)
            return foobar_rcv_client (session, data, data_size);
        else
            return foobar_rcv_server (session, data, data_size);
    }

int
_gnutls_foobar_send_params (gnutls_session_t session,
                           opaque * data,
                           size_t data_size)
{
    if (session->security_parameters.entity == GNUTLS_CLIENT)
        return foobar_send_client (session, data, data_size);
    else
        return foobar_send_server (session, data, data_size);
}

```

The functions used would be declared as `static' functions, of the appropriate prototype, in the same file.

When adding the files, you'll need to add them to `Makefile.am' as well, for example:

```

if ENABLE_FOOBAR
OBJECTS += ext_foobar.c
HFILES += ext_foobar.h
endif

```

5. Add API functions to enable/disable the extension.

Normally the client will have one API to request use of the extension, and setting some extension specific data. The server will have one API to let the library know that it is willing to accept the extension, often this is implemented through a callback but it doesn't have to.

The APIs need to be added to `includes/gnutls/gnutls.h' or `includes/gnutls/extra.h' as appropriate. It is recommended that if you don't have a requirement to use the LGPLv2.1+ license for your extension, that you place your work under the GPLv3+ license and thus in the libgnutls-extra library.

You can implement the API function in the `ext_foobar.c' file, or if that file ends up becoming rather larger, add a `gnutls_foobar.c' file.

12.5 Certificate Handling

=====

What is provided by the certificate handling functions is summarized in the following diagram.

[image src="gnutls-certificate-user-use-case.png"]

File: gnutls.info, Node: Cryptographic Backend, Prev: TLS Extension Handling, Up: Internal architecture of GnuTLS

12.6 Cryptographic Backend

=====

Several new systems provide hardware assisted cryptographic algorithm implementations that offer implementations some orders of magnitude faster than the software. For this reason in current releases of GnuTLS it is possible to override parts of the crypto backend or the whole. It is possible to override them both at runtime and compile time, however here we will discuss the runtime possibility. The API available for this functionality is in ``gnutls/crypto.h'` header file.

12.6.1 Override specific algorithms

When an optimized implementation of a single algorithm is available, say a hardware assisted version of AES-CBC then the following functions can be used to register those algorithms.

* `*note gnutls_crypto_single_cipher_register2::` To register a cipher algorithm.

* `*note gnutls_crypto_single_mac_register2::` To register a MAC algorithm.

* `*note gnutls_crypto_single_digest_register2::` To register a digest (hash) algorithm.

Those registration functions will only replace the specified algorithm and leave the rest of subsystem intact.

12.6.2 Override parts of the backend

In some systems, such as embedded ones, it might be desirable to

override big parts of the cryptographic backend, or even all of them.
For this reason the following functions are provided.

- * *note gnutls_crypto_cipher_register2:: To override the cryptographic algorithms backend.
- * *note gnutls_crypto_mac_register2:: To override the MAC algorithms backend.
- * *note gnutls_crypto_digest_register2:: To override the digest algorithms backend.
- * *note gnutls_crypto_rnd_register2:: To override the random number generator backend.
- * *note gnutls_crypto_bigint_register2:: To override the big number number operations backend.
- * *note gnutls_crypto_pk_register2:: To override the public key encryption backend. This is tight to the big number operations so either both of them should be updated or care must be taken to use the same format.

If all of them are used then GnuTLS will no longer use libcrypt.

File: gnutls.info, Node: Copying Information, Next: Concept Index, Prev: Internal architecture of GnuTLS, Up: Top

Appendix A Copying Information

* Menu:

- * GNU Free Documentation License:: License for copying this manual.
- * GNU LGPL:: License for copying the core GnuTLS library.
- * GNU GPL:: License for copying GNUTLS extra and tools.

\input texinfo @c -*texinfo-*-

@comment %**start of header

@setfilename gnutls.info

@include version.texi

@settitle GNU TLS @value{VERSION}

@c don't indent the paragraphs.

@paragraphindent 0

@c Unify some of the indices.

@syncodeindex tp fn
@syncodeindex pg cp

@comment %**end of header

@finalout

@copying

This manual is last updated @value{UPDATED} for version
@value{VERSION} of GNU TLS.

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@quotation

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@end quotation

@end copying

@dircategory Software libraries

@direntry

* GnuTLS: (gnutls). GNU Transport Layer Security Library.

@end direntry

@dircategory System Administration

@direntry

* certtool: (gnutls)Invoking certtool. Manipulate certificates and keys.

* gnutls-serv: (gnutls)Invoking gnutls-serv. GNU TLS test server.

* gnutls-cli: (gnutls)Invoking gnutls-cli. GNU TLS test client.

* gnutls-cli-debug: (gnutls)Invoking gnutls-cli-debug. GNU TLS debug client.

* psktool: (gnutls)Invoking psktool. Simple TLS-Pre-Shared-Keys manager.

* srptool: (gnutls)Invoking srptool. Simple SRP password tool.

@end direntry

@titlepage

@title GNU TLS

@subtitle Transport Layer Security Library for the GNU system

@subtitle for version @value{VERSION}, @value{UPDATED}

@sp 7

@image{gnutls-logo,6cm,6cm}

@author Nikos Mavrogiannopoulos

@author Simon Josefsson (@email{bug-gnutls@gnu.org})

@page

@vskip 0pt plus 1filll

@insertcopying

@end titlepage

```
@macro xcite{ref}
[ref] (@pxref{Bibliography})
@end macro
```

```
@contents
```

```
@ifnottex
@node Top
@top GNU TLS
```

```
@insertcopying
@end ifnottex
```

```
@menu
* Preface::
* The Library::
* Introduction to TLS::
* Authentication methods::
* More on certificate authentication::
* How to use TLS in application protocols::
* How to use GnuTLS in applications::
* Included programs::
* Function reference::
* All the supported ciphersuites in GnuTLS::
* Guile Bindings::
* Internal architecture of GnuTLS::
* Copying Information::
* Concept Index::
* Function and Data Index::
@c * @mybibnode{ }::
* Bibliography::
@end menu
```

```
@node Preface
@chapter Preface
```

This document tries to demonstrate and explain the @acronym{GnuTLS} library API. A brief introduction to the protocols and the technology involved, is also included so that an application programmer can better understand the @acronym{GnuTLS} purpose and actual offerings. Even if @acronym{GnuTLS} is a typical library software, it operates over several security and cryptographic protocols, which require the programmer to make careful and correct usage of them, otherwise he risks to offer just a false sense of security. Security and the network security terms are very general terms even for computer software thus cannot be easily restricted to a single cryptographic

library. For that reason, do not consider a program secure just because it uses `@acronym{GnuTLS}`; there are several ways to compromise a program or a communication line and `@acronym{GnuTLS}` only helps with some of them.

Although this document tries to be self contained, basic network programming and PKI knowlegde is assumed in most of it. A good introduction to networking can be found in `@xcite{STEVENS}` and for Public Key Infrastructure in `@xcite{GUTPKI}`.

`@anchor{Availability}`

Updated versions of the `@acronym{GnuTLS}` software and this document will be available from `@url{http://www.gnutls.org/}` and `@url{http://www.gnu.org/software/gnutls/}`.

`@menu`

- * Getting help::
- * Commercial Support::
- * Downloading and Installing::
- * Bug Reports::
- * Contributing::

`@end menu`

`@node Getting help`

`@section Getting Help`

A mailing list where users may help each other exists, and you can reach it by sending e-mail to `@email{help-gnutls@@gnu.org}`. Archives of the mailing list discussions, and an interface to manage subscriptions, is available through the World Wide Web at `@url{http://lists.gnu.org/mailman/listinfo/help-gnutls}`.

A mailing list for developers are also available, see `@url{http://www.gnu.org/software/gnutls/lists.html}`.

Bug reports should be sent to `@email{bug-gnutls@@gnu.org}`, see `@xref{Bug Reports}`.

`@node Commercial Support`

`@section Commercial Support`

Commercial support is available for users of GnuTLS. The kind of support that can be purchased may include:

`@itemize`

`@item Implement new features.`

Such as a new TLS extension.

@item Port GnuTLS to new platforms.

This could include porting to an embedded platforms that may need memory or size optimization.

@item Integrating TLS as a security environment in your existing project.

@item System design of components related to TLS.

@end itemize

If you are interested, please write to:

@verbatim

Simon Josefsson Datakonsult
Hagagatan 24
113 47 Stockholm
Sweden

E-mail: simon@josefsson.org

@end verbatim

If your company provide support related to GnuTLS and would like to be mentioned here, contact the author (@pxref{Bug Reports}).

@node Downloading and Installing

@section Downloading and Installing

@cindex Installation

@cindex Download

GnuTLS is available for download from the following URL:

@url{<http://www.gnutls.org/download.html>}

The latest version is stored in a file, e.g.,

@samp{gnutls-@value{VERSION}.tar.gz} where the @samp{@value{VERSION}} value is the highest version number in the directory.

GnuTLS uses a Linux-like development cycle: even minor version numbers indicate a stable release and a odd minor version number indicates a development release. For example, GnuTLS 1.6.3 denote a stable release since 6 is even, and GnuTLS 1.7.11 denote a development release since 7 is odd.

GnuTLS depends on Libgcrypt,
and you will need to install Libgcrypt
before installing GnuTLS. Libgcrypt is available from

@url{ftp://ftp.gnupg.org/gcrypt/libgcrypt}. Libgcrypt needs another library, libpgp-error, and you need to install libpgp-error before installing Libgcrypt. Libpgp-error is available from @url{ftp://ftp.gnupg.org/gcrypt/libpgp-error}.

Don't forget to verify the cryptographic signature after downloading source code packages.

The package is then extracted, configured and built like many other packages that use Autoconf. For detailed information on configuring and building it, refer to the @file{INSTALL} file that is part of the distribution archive. Typically you invoke @code{./configure} and then @code{make check install}. There are a number of compile-time parameters, as discussed below.

The compression libraries (libz and lzo) are optional dependencies. You can get libz from @url{http://www.zlib.net/}. You can get lzo from @url{http://www.oberhumer.com/opensource/lzo/}.

The X.509 part of GnuTLS needs ASN.1 functionality, from a library called libtasn1. A copy of libtasn1 is included in GnuTLS. If you want to install it separately (e.g., to make it possible to use libtasn1 in other programs), you can get it from @url{http://www.gnu.org/software/gnutls/download.html}.

The OpenPGP part of GnuTLS uses a stripped down version of OpenCDK for parsing OpenPGP packets. It is included in GnuTLS. Use parameter @code{--disable-openpgp-authentication} to disable the OpenPGP functionality in GnuTLS. Unfortunately, we didn't have resources to maintain the code in a separate library.

Regarding the Guile bindings, there are additional installation considerations, see @xref{Guile Preparations}.

A few @code{configure} options may be relevant, summarized in the table.

@table @code

@item --disable-srp-authentication

@itemx --disable-psk-authentication

@itemx --disable-anon-authentication

@itemx --disable-extra-pki

@itemx --disable-openpgp-authentication

@itemx --disable-openssl-compatibility

Disable or enable particular features. Generally not recommended.

@end table

For the complete list, refer to the output from `configure --help`.

@node Bug Reports
@section Bug Reports
@cindex Reporting Bugs

If you think you have found a bug in GnuTLS, please investigate it and report it.

@itemize @bullet

@item Please make sure that the bug is really in GnuTLS, and preferably also check that it hasn't already been fixed in the latest version.

@item You have to send us a test case that makes it possible for us to reproduce the bug.

@item You also have to explain what is wrong; if you get a crash, or if the results printed are not good and in that case, in what way. Make sure that the bug report includes all information you would need to fix this kind of bug for someone else.

@end itemize

Please make an effort to produce a self-contained report, with something definite that can be tested or debugged. Vague queries or piecemeal messages are difficult to act on and don't help the development effort.

If your bug report is good, we will do our best to help you to get a corrected version of the software; if the bug report is poor, we won't do anything about it (apart from asking you to send better bug reports).

If you think something in this manual is unclear, or downright incorrect, or if the language needs to be improved, please also send a note.

Send your bug report to:

@center @samp{bug-gnutls@gnu.org}

@node Contributing
@section Contributing
@cindex Contributing

@cindex Hacking

If you want to submit a patch for inclusion -- from solve a typo you discovered, up to adding support for a new feature -- you should submit it as a bug report (@pxref{Bug Reports}). There are some things that you can do to increase the chances for it to be included in the official package.

Unless your patch is very small (say, under 10 lines) we require that you assign the copyright of your work to the Free Software Foundation. This is to protect the freedom of the project. If you have not already signed papers, we will send you the necessary information when you submit your contribution.

For contributions that doesn't consist of actual programming code, the only guidelines are common sense. Use it.

For code contributions, a number of style guides will help you:

@itemize @bullet

@item Coding Style.

Follow the GNU Standards document (@pxref{top, GNU Coding Standards,, standards}).

If you normally code using another coding standard, there is no problem, but you should use @samp{indent} to reformat the code (@pxref{top, GNU Indent,, indent}) before submitting your work.

@item Use the unified diff format @samp{diff -u}.

@item Return errors.

No reason whatsoever should abort the execution of the library. Even memory allocation errors, e.g. when malloc return NULL, should work although result in an error code.

@item Design with thread safety in mind.

Don't use global variables. Don't even write to per-handle global variables unless the documented behaviour of the function you write is to write to the per-handle global variable.

@item Avoid using the C math library.

It causes problems for embedded implementations, and in most situations it is very easy to avoid using it.

@item Document your functions.

Use comments before each function headers, that, if properly formatted, are extracted into Texinfo manuals and GTK-DOC web pages.

@item Supply a ChangeLog and NEWS entries, where appropriate.

@end itemize

@node The Library

@chapter The Library

In brief @acronym{GnuTLS} can be described as a library which offers an API to access secure communication protocols. These protocols provide privacy over insecure lines, and were designed to prevent eavesdropping, tampering, or message forgery.

Technically @acronym{GnuTLS} is a portable ANSI C based library which implements the TLS 1.1 and SSL 3.0 protocols (@xref{Introduction to TLS}), for a more detailed description of the protocols), accompanied with the required framework for authentication and public key infrastructure. Important features of the @acronym{GnuTLS} library include:

@itemize

@item Support for TLS 1.0, TLS 1.1, and SSL 3.0 protocols.

@item Support for both @acronym{X.509} and @acronym{OpenPGP} certificates.

@item Support for handling and verification of certificates.

@item Support for @acronym{SRP} for TLS authentication.

@item Support for @acronym{PSK} for TLS authentication.

@item Support for TLS Extension mechanism.

@item Support for TLS Compression Methods.

@end itemize

Additionally @acronym{GnuTLS} provides a limited emulation API for the widely used OpenSSL@footnote{ @url{http://www.openssl.org/}} library, to ease integration with existing applications.

@acronym{GnuTLS} consists of three independent parts, namely the ``TLS protocol part'', the ``Certificate part'', and the ``Cryptographic backend'' part. The `TLS protocol part' is the actual protocol implementation, and is entirely implemented within the @acronym{GnuTLS} library. The `Certificate part' consists of the certificate parsing, and verification functions which is partially implemented in the @acronym{GnuTLS} library. The

@acronym{Libtasn1} @footnote{ @url{ftp://ftp.gnupg.org/gcrypt/alpha/gnutls/libtasn1/} }, a library which offers @acronym{ASN.1} parsing capabilities, is used for the @acronym{X.509} certificate parsing functions. A smaller version of @acronym{OpenCDK} @footnote{ @url{ftp://ftp.gnupg.org/gcrypt/alpha/gnutls/opencdk/} } is used for the @acronym{OpenPGP} key support in @acronym{GnuTLS}. The ``Cryptographic backend" is provided by the @acronym{Libgcrypt} @footnote{ @url{ftp://ftp.gnupg.org/gcrypt/alpha/libgcrypt/} } library @footnote{On current versions of GnuTLS it is possible to override the default crypto backend. Check @pxref{Cryptographic Backend} for details}.

In order to ease integration in embedded systems, parts of the @acronym{GnuTLS} library can be disabled at compile time. That way a small library, with the required features, can be generated.

@menu
* General Idea::
* Error handling::
* Memory handling::
* Callback functions::
@end menu

@node General Idea
@section General Idea

A brief description of how @acronym{GnuTLS} works internally is shown at the figure below. This section may be easier to understand after having seen the examples (@pxref{examples}).

@image{gnutls-internals,12cm,8cm}

As shown in the figure, there is a read-only global state that is initialized once by the global initialization function. This global structure, among others, contains the memory allocation functions used, and some structures needed for the @acronym{ASN.1} parser. This structure is never modified by any @acronym{GnuTLS} function, except for the deinitialization function which frees all memory allocated in the global structure and is called after the program has permanently finished using @acronym{GnuTLS}.

The credentials structure is used by some authentication methods, such as certificate authentication (@pxref{Certificate Authentication}). A credentials structure may contain certificates, private keys, temporary parameters for Diffie-Hellman or RSA key exchange, and other stuff that may be shared between several TLS sessions.

This structure should be initialized using the appropriate initialization functions. For example an application which uses

certificate authentication would probably initialize the credentials, using the appropriate functions, and put its trusted certificates in this structure. The next step is to associate the credentials structure with each @acronym{TLS} session.

A @acronym{GnuTLS} session contains all the required stuff for a session to handle one secure connection. This session calls directly to the transport layer functions, in order to communicate with the peer. Every session has a unique session ID shared with the peer.

Since TLS sessions can be resumed, servers would probably need a database backend to hold the session's parameters. Every @acronym{GnuTLS} session after a successful handshake calls the appropriate backend function (@xref{resume}, for information on initialization) to store the newly negotiated session. The session database is examined by the server just after having received the client hello@footnote{The first message in a @acronym{TLS} handshake}, and if the session ID sent by the client, matches a stored session, the stored session will be retrieved, and the new session will be a resumed one, and will share the same session ID with the previous one.

@node Error handling

@section Error Handling

In @acronym{GnuTLS} most functions return an integer type as a result. In almost all cases a zero or a positive number means success, and a negative number indicates failure, or a situation that some action has to be taken. Thus negative error codes may be fatal or not.

Fatal errors terminate the connection immediately and further sends and receives will be disallowed. An example of a fatal error code is @code{GNUTLS_E_DECRYPTION_FAILED}. Non-fatal errors may warn about something, i.e., a warning alert was received, or indicate the some action has to be taken. This is the case with the error code @code{GNUTLS_E_REHANDSHAKE} returned by @ref{gnutls_record_recv}. This error code indicates that the server requests a re-handshake. The client may ignore this request, or may reply with an alert. You can test if an error code is a fatal one by using the @ref{gnutls_error_is_fatal}.

If any non fatal errors, that require an action, are to be returned by a function, these error codes will be documented in the function's reference. @xref{Error Codes}, for all the error codes.

@node Memory handling

@section Memory Handling

@acronym{GnuTLS} internally handles heap allocated objects

differently, depending on the sensitivity of the data they contain. However for performance reasons, the default memory functions do not overwrite sensitive data from memory, nor protect such objects from being written to the swap. In order to change the default behavior the `@ref{gnutls_global_set_mem_functions}` function is available which can be used to set other memory handlers than the defaults.

The `@acronym{Libgcrypt}` library on which `@acronym{GnuTLS}` depends, has such secure memory allocation functions available. These should be used in cases where even the system's swap memory is not considered secure. See the documentation of `@acronym{Libgcrypt}` for more information.

`@node` Callback functions

`@section` Callback Functions

`@cindex` Callback functions

There are several cases where `@acronym{GnuTLS}` may need some out of band input from your program. This is now implemented using some callback functions, which your program is expected to register.

An example of this type of functions are the push and pull callbacks which are used to specify the functions that will retrieve and send data to the transport layer.

`@itemize`

`@item @ref{gnutls_transport_set_push_function}`

`@item @ref{gnutls_transport_set_pull_function}`

`@end itemize`

Other callback functions such as the one set by `@ref{gnutls_srp_set_server_credentials_function}`, may require more complicated input, including data to be allocated. These callbacks should allocate and free memory using the functions shown below.

`@itemize`

`@item @ref{gnutls_malloc}`

`@item @ref{gnutls_free}`

`@end itemize`

`@node` Introduction to TLS

@chapter Introduction to @acronym{TLS}

@acronym{TLS} stands for "Transport Layer Security" and is the successor of SSL, the Secure Sockets Layer protocol @xcite{SSL3} designed by Netscape. @acronym{TLS} is an Internet protocol, defined by @acronym{IETF} @footnote{IETF, or Internet Engineering Task Force, is a large open international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the smooth operation of the Internet. It is open to any interested individual.}, described in @acronym{RFC} 4346 and also in @xcite{RESCORLA}. The protocol provides confidentiality, and authentication layers over any reliable transport layer. The description, below, refers to @acronym{TLS} 1.0 but also applies to @acronym{TLS} 1.1 @xcite{RFC4346} and @acronym{SSL} 3.0, since the differences of these protocols are minor. Older protocols such as @acronym{SSL} 2.0 are not discussed nor implemented in @acronym{GnuTLS} since they are not considered secure today. GnuTLS also supports @acronym{X.509} and @acronym{OpenPGP} @xcite{RFC4880}.

@menu

- * TLS layers::
- * The transport layer::
- * The TLS record protocol::
- * The TLS Alert Protocol::
- * The TLS Handshake Protocol::
- * TLS Extensions::
- * Selecting cryptographic key sizes::
- * On SSL 2 and older protocols::
- * On Record Padding::

@end menu

@node TLS layers

@section TLS Layers

@cindex TLS Layers

@acronym{TLS} is a layered protocol, and consists of the Record Protocol, the Handshake Protocol and the Alert Protocol. The Record Protocol is to serve all other protocols and is above the transport layer. The Record protocol offers symmetric encryption, data authenticity, and optionally compression.

The Alert protocol offers some signaling to the other protocols. It can help informing the peer for the cause of failures and other error conditions. @xref{The Alert Protocol}, for more information. The alert protocol is above the record protocol.

The Handshake protocol is responsible for the security parameters' negotiation, the initial key exchange and authentication. @xref{The

Handshake Protocol}, for more information about the handshake protocol. The protocol layering in TLS is shown in the figure below.

@image{gnutls-layers,12cm,8cm}

@node The transport layer

@section The Transport Layer

@cindex Transport protocol

@acronym{TLS} is not limited to one transport layer, it can be used above any transport layer, as long as it is a reliable one. A set of functions is provided and their purpose is to load to @acronym{GnuTLS} the required callbacks to access the transport layer.

@itemize

@item @ref{gnutls_transport_set_push_function}

@item @ref{gnutls_transport_set_pull_function}

@item @ref{gnutls_transport_set_ptr}

@item @ref{gnutls_transport_set_lowat}

@item @ref{gnutls_transport_set_errno}

@end itemize

These functions accept a callback function as a parameter. The callback functions should return the number of bytes written, or -1 on error and should set @code{errno} appropriately.

In some environments, setting @code{errno} is unreliable, for example Windows have several errno variables in different CRTs, or it may be that errno is not a thread-local variable. If this is a concern to you, call @code{gnutls_transport_set_errno} with the intended errno value instead of setting @code{errno} directly.

@acronym{GnuTLS} currently only interprets the EINTR and EAGAIN errno values and returns the corresponding @acronym{GnuTLS} error codes @code{GNUTLS_E_INTERRUPTED} and @code{GNUTLS_E_AGAIN}. These values are usually returned by interrupted system calls, or when non blocking IO is used. All @acronym{GnuTLS} functions can be resumed (called again), if any of these error codes is returned. The error codes above refer to the system call, not the @acronym{GnuTLS} function, since signals do not interrupt @acronym{GnuTLS}' functions.

For non blocking sockets or other custom made pull/push functions the @ref{gnutls_transport_set_lowat} must be called, with a zero low water mark value.

By default, if the transport functions are not set, @acronym{GnuTLS} will use the Berkeley Sockets functions. In this case @acronym{GnuTLS} will use some hacks in order for @code{select} to

work, thus making it easy to add @acronym{TLS} support to existing TCP/IP servers.

@node The TLS record protocol

@section The TLS Record Protocol

@cindex Record protocol

The Record protocol is the secure communications provider. Its purpose is to encrypt, authenticate and ---optionally--- compress packets.

The following functions are available:

@table @asis

@item @ref{gnutls_record_send}:

To send a record packet (with application data).

@item @ref{gnutls_record_rcv}:

To receive a record packet (with application data).

@item @ref{gnutls_record_get_direction}:

To get the direction of the last interrupted function call.

@end table

As you may have already noticed, the functions which access the Record protocol, are quite limited, given the importance of this protocol in @acronym{TLS}. This is because the Record protocol's parameters are all set by the Handshake protocol.

The Record protocol initially starts with NULL parameters, which means no encryption, and no MAC is used. Encryption and authentication begin just after the handshake protocol has finished.

@menu

* Encryption algorithms used in the record layer::

* Compression algorithms used in the record layer::

* Weaknesses and countermeasures::

@end menu

@node Encryption algorithms used in the record layer

@subsection Encryption Algorithms Used in the Record Layer

@cindex Symmetric encryption algorithms

Confidentiality in the record layer is achieved by using symmetric block encryption algorithms like @code{3DES}, @code{AES}@footnote{AES, or Advanced Encryption Standard, is actually the RIJNDAEL algorithm.

This is the algorithm that replaced DES.), or stream algorithms like

@code{ARCFOUR_128}@footnote{@code{ARCFOUR_128} is a compatible algorithm with RSA's RC4 algorithm, which is considered to be a trade

secret.}. Ciphers are encryption algorithms that use a single, secret, key to encrypt and decrypt data. Block algorithms in TLS also provide protection against statistical analysis of the data. Thus, if you're using the @acronym{TLS} protocol, a random number of blocks will be appended to data, to prevent eavesdroppers from guessing the actual data size.

Supported cipher algorithms:

@table @code

@item 3DES_CBC

@code{3DES_CBC} is the DES block cipher algorithm used with triple encryption (EDE). Has 64 bits block size and is used in CBC mode.

@item ARCFOUR_128

ARCFOUR is a fast stream cipher.

@item ARCFOUR_40

This is the ARCFOUR cipher that is fed with a 40 bit key, which is considered weak.

@item AES_CBC

AES or RIJNDAEL is the block cipher algorithm that replaces the old DES algorithm. Has 128 bits block size and is used in CBC mode. This is not officially supported in TLS.

@end table

Supported MAC algorithms:

@table @code

@item MAC_MD5

MD5 is a cryptographic hash algorithm designed by Ron Rivest. Outputs 128 bits of data.

@item MAC_SHA

SHA is a cryptographic hash algorithm designed by NSA. Outputs 160 bits of data.

@end table

@node Compression algorithms used in the record layer

@subsection Compression Algorithms Used in the Record Layer

@cindex Compression algorithms

The TLS record layer also supports compression. The algorithms implemented in @acronym{GnuTLS} can be found in the table below.

All the algorithms except for DEFLATE which is referenced in @xcite{RFC3749}, should be considered as

@acronym{GnuTLS}' extensions@footnote{ You should use @ref{gnutls_handshake_set_private_extensions} to enable private extensions.}, and should be advertised only when the peer is known to have a compliant client, to avoid interoperability problems.

The included algorithms perform really good when text, or other compressible data are to be transferred, but offer nothing on already compressed data, such as compressed images, zipped archives etc. These compression algorithms, may be useful in high bandwidth TLS tunnels, and in cases where network usage has to be minimized. As a drawback, compression increases latency.

The record layer compression in @acronym{GnuTLS} is implemented based on the proposal @xcite{RFC3749}.

The supported compression algorithms are:

@table @code

@item DEFLATE

Zlib compression, using the deflate algorithm.

@item LZO

LZO is a very fast compression algorithm. This algorithm is only available if the @acronym{GnuTLS-extra} library has been initialized and the private extensions are enabled, and if GnuTLS was built with LZO support.

@end table

@node Weaknesses and countermeasures

@subsection Weaknesses and Countermeasures

Some weaknesses that may affect the security of the Record layer have been found in @acronym{TLS} 1.0 protocol. These weaknesses can be exploited by active attackers, and exploit the facts that

@enumerate

@item

@acronym{TLS} has separate alerts for ``decryption_failed" and ``bad_record_mac"

@item

The decryption failure reason can be detected by timing the response time.

@item

The IV for CBC encrypted packets is the last block of the previous encrypted packet.

@end enumerate

Those weaknesses were solved in @acronym{TLS} 1.1 @xcite{RFC4346} which is implemented in @acronym{GnuTLS}. For a detailed discussion see the archives of the TLS Working Group mailing list and the paper @xcite{CBCATT}.

@node The TLS Alert Protocol

@section The TLS Alert Protocol

@anchor{The Alert Protocol}

@cindex Alert protocol

The Alert protocol is there to allow signals to be sent between peers. These signals are mostly used to inform the peer about the cause of a protocol failure. Some of these signals are used internally by the protocol and the application protocol does not have to cope with them (see @code{GNUTLS_A_CLOSE_NOTIFY}), and others refer to the application protocol solely (see @code{GNUTLS_A_USER_CANCELLED}). An alert signal includes a level indication which may be either fatal or warning. Fatal alerts always terminate the current connection, and prevent future renegotiations using the current session ID.

The alert messages are protected by the record protocol, thus the information that is included does not leak. You must take extreme care for the alert information not to leak to a possible attacker, via public log files etc.

@table @asis

@item @ref{gnutls_alert_send}:

To send an alert signal.

@item @ref{gnutls_error_to_alert}:

To map a gnutls error number to an alert signal.

@item @ref{gnutls_alert_get}:

Returns the last received alert.

@item @ref{gnutls_alert_get_name}:

Returns the name, in a character array, of the given alert.

@end table

@node The TLS Handshake Protocol

@section The TLS Handshake Protocol

@anchor{The Handshake Protocol}

@cindex Handshake protocol

The Handshake protocol is responsible for the ciphersuite negotiation,

the initial key exchange, and the authentication of the two peers. This is fully controlled by the application layer, thus your program has to set up the required parameters. Available functions to control the handshake protocol include:

@table @asis

@item @ref{gnutls_priority_init}:

To initialize a priority set of ciphers.

@item @ref{gnutls_priority_deinit}:

To deinitialize a priority set of ciphers.

@item @ref{gnutls_priority_set}:

To associate a priority set with a @acronym{TLS} session.

@item @ref{gnutls_priority_set_direct}:

To directly associate a session with a given priority string.

@item @ref{gnutls_credentials_set}:

To set the appropriate credentials structures.

@item @ref{gnutls_certificate_server_set_request}:

To set whether client certificate is required or not.

@item @ref{gnutls_handshake}:

To initiate the handshake.

@end table

@subsection TLS Cipher Suites

The Handshake Protocol of @acronym{TLS} negotiates cipher suites of the form @code{TLS_DHE_RSA_WITH_3DES_CBC_SHA}. The usual cipher suites contain these parameters:

@itemize

@item The key exchange algorithm.

@code{DHE_RSA} in the example.

@item The Symmetric encryption algorithm and mode

@code{3DES_CBC} in this example.

@item The MAC@footnote{MAC stands for Message Authentication Code. It can be described as a keyed hash algorithm. See RFC2104.} algorithm used for authentication.

@code{MAC_SHA} is used in the above example.

@end itemize

The cipher suite negotiated in the handshake protocol will affect the Record Protocol, by enabling encryption and data authentication. Note that you should not over rely on @acronym{TLS} to negotiate the strongest available cipher suite. Do not enable ciphers and algorithms that you consider weak.

The priority functions, discussed above, allow the application layer to enable and set priorities on the individual ciphers. It may imply that all combinations of ciphersuites are allowed, but this is not true. For several reasons, not discussed here, some combinations were not defined in the @acronym{TLS} protocol. The supported ciphersuites are shown in @ref{ciphersuites}.

@subsection Client Authentication
@cindex Client Certificate authentication

In the case of ciphersuites that use certificate authentication, the authentication of the client is optional in @acronym{TLS}. A server may request a certificate from the client --- using the @ref{gnutls_certificate_server_set_request} function. If a certificate is to be requested from the client during the handshake, the server will send a certificate request message that contains a list of acceptable certificate signers. In @acronym{GnuTLS} the certificate signers list is constructed using the trusted Certificate Authorities by the server. That is the ones set using @itemize
@item @ref{gnutls_certificate_set_x509_trust_file}
@item @ref{gnutls_certificate_set_x509_trust_mem}
@end itemize

Sending of the names of the CAs can be controlled using @ref{gnutls_certificate_send_x509_rdn_sequence}. The client, then, may send a certificate, signed by one of the server's acceptable signers.

@subsection Resuming Sessions
@anchor{resume}
@cindex Resuming sessions

The @ref{gnutls_handshake} function, is expensive since a lot of calculations are performed. In order to support many fast connections to the same server a client may use session resuming. @strong{Session resuming} is a feature of the @acronym{TLS} protocol which allows a client to connect to a server, after a successful handshake, without the expensive calculations. This is achieved by using the previously established keys. @acronym{GnuTLS} supports this feature, and the example (@pxref{ex:resume-client}) illustrates a typical use of it.

Keep in mind that sessions are expired after some time, for security reasons, thus it may be normal for a server not to resume a session even if you requested that. Also note that you must enable, using the priority functions, at least the algorithms used in the last session.

@subsection Resuming Internals

The resuming capability, mostly in the server side, is one of the problems of a thread-safe TLS implementations. The problem is that all threads must share information in order to be able to resume sessions. The gnutls approach is, in case of a client, to leave all the burden of resuming to the client. I.e., copy and keep the necessary parameters. See the functions:

@itemize

@item @ref{gnutls_session_get_data}

@item @ref{gnutls_session_get_id}

@item @ref{gnutls_session_set_data}

@end itemize

The server side is different. A server has to specify some callback functions which store, retrieve and delete session data. These can be registered with:

@itemize

@item @ref{gnutls_db_set_remove_function}

@item @ref{gnutls_db_set_store_function}

@item @ref{gnutls_db_set_retrieve_function}

@item @ref{gnutls_db_set_ptr}

@end itemize

It might also be useful to be able to check for expired sessions in order to remove them, and save space. The function @ref{gnutls_db_check_entry} is provided for that reason.

@node TLS Extensions

@section TLS Extensions

@cindex TLS Extensions

A number of extensions to the @acronym{TLS} protocol have been proposed mainly in @xcite{TLSEXT}. The extensions supported in @acronym{GnuTLS} are:

```
@itemize
@item Maximum fragment length negotiation
@item Server name indication
@end itemize
```

and they will be discussed in the subsections that follow.

```
@subsection Maximum Fragment Length Negotiation
@cindex TLS Extensions
@cindex Maximum fragment length
```

This extension allows a @acronym{TLS} implementation to negotiate a smaller value for record packet maximum length. This extension may be useful to clients with constrained capabilities. See the

```
@ref{gnutls_record_set_max_size} and the
@ref{gnutls_record_get_max_size} functions.
```

```
@subsection Server Name Indication
@anchor{serverind}
@cindex TLS Extensions
@cindex Server name indication
```

A common problem in @acronym{HTTPS} servers is the fact that the @acronym{TLS} protocol is not aware of the hostname that a client connects to, when the handshake procedure begins. For that reason the @acronym{TLS} server has no way to know which certificate to send.

This extension solves that problem within the @acronym{TLS} protocol, and allows a client to send the HTTP hostname before the handshake begins within the first handshake packet. The functions @ref{gnutls_server_name_set} and @ref{gnutls_server_name_get} can be used to enable this extension, or to retrieve the name sent by a client.

```
@node Selecting cryptographic key sizes
@section Selecting Cryptographic Key Sizes
@cindex key sizes
```

In TLS, since a lot of algorithms are involved, it is not easy to set a consistent security level. For this reason this section will present some correspondance between key sizes of symmetric algorithms and public key algorithms based on the most conservative values of @xcite{SELKEY}. Those can be used to generate certificates with appropriate key sizes as well as parameters for Diffie-Hellman and SRP authentication.

@multitable @columnfractions .15 .20 .20 .20

@item Year

@tab Symmetric key size

@tab RSA key size, DH and SRP prime size

@tab ECC key size

@item 1982

@tab 56

@tab 417

@tab 105

@item 1988

@tab 61

@tab 566

@tab 114

@item 2002

@tab 72

@tab 1028

@tab 139

@item 2015

@tab 82

@tab 1613

@tab 173

@item 2028

@tab 92

@tab 2362

@tab 210

@item 2040

@tab 101

@tab 3214

@tab 244

@item 2050

@tab 109

@tab 4047

@tab 272

@end multitable

The first column provides an estimation of the year until these parameters are considered safe and the rest of the columns list the parameters for the various algorithms.

Note however that the values suggested here are nothing more than an educated guess that is valid today. There are no guarantees that an algorithm will remain unbreakable or that these values will remain constant in time. There could be scientific breakthroughs that cannot be predicted or total failure of the current public key systems by quantum computers. On the other hand though the cryptosystems used in TLS are selected in a conservative way and such catastrophic breakthroughs or failures are believed to be unlikely.

NIST publication SP 800-57 [@xcite{NISTSP80057}](#) contains a similar table that extends beyond the key sizes given above.

`@multitable @columnfractions .15 .20 .20 .20`

`@item Bits of security`

`@tab Symmetric key algorithms`

`@tab RSA key size, DSA, DH and SRP prime size`

`@tab ECC key size`

`@item 80`

`@tab 2TDEA`

`@tab 1024`

`@tab 160-223`

`@item 112`

`@tab 3DES`

`@tab 2048`

`@tab 224-255`

`@item 128`

`@tab AES-128`

`@tab 3072`

`@tab 256-383`

`@item 192`

`@tab AES-192`

`@tab 7680`

`@tab 384-511`

`@item 256`

`@tab AES-256`

`@tab 15360`

`@tab 512+`

`@end multitable`

The recommendations are fairly consistent.

`@node On SSL 2 and older protocols`

`@section On SSL 2 and Older Protocols`

@cindex SSL 2

One of the initial decisions in the @acronym{GnuTLS} development was to implement the known security protocols for the transport layer. Initially @acronym{TLS} 1.0 was implemented since it was the latest at that time, and was considered to be the most advanced in security properties. Later the @acronym{SSL} 3.0 protocol was implemented since it is still the only protocol supported by several servers and there are no serious security vulnerabilities known.

One question that may arise is why we didn't implement @acronym{SSL} 2.0 in the library. There are several reasons, most important being that it has serious security flaws, unacceptable for a modern security library. Other than that, this protocol is barely used by anyone these days since it has been deprecated since 1996. The security problems in @acronym{SSL} 2.0 include:

@itemize

@item Message integrity compromised.

The @acronym{SSLv2} message authentication uses the MD5 function, and is insecure.

@item Man-in-the-middle attack.

There is no protection of the handshake in @acronym{SSLv2}, which permits a man-in-the-middle attack.

@item Truncation attack.

@acronym{SSLv2} relies on TCP FIN to close the session, so the attacker can forge a TCP FIN, and the peer cannot tell if it was a legitimate end of data or not.

@item Weak message integrity for export ciphers.

The cryptographic keys in @acronym{SSLv2} are used for both message authentication and encryption, so if weak encryption schemes are negotiated (say 40-bit keys) the message authentication code use the same weak key, which isn't necessary.

@end itemize

@cindex PCT

Other protocols such as Microsoft's @acronym{PCT} 1 and @acronym{PCT} 2 were not implemented because they were also abandoned and deprecated by @acronym{SSL} 3.0 and later @acronym{TLS} 1.0.

@node On Record Padding

@section On Record Padding

@cindex Record padding

@cindex Bad record MAC

The TLS protocol allows for random padding of records, to make it more difficult to perform analysis on the length of exchanged messages. (In RFC 4346 this is specified in section 6.2.3.2.) GnuTLS appears to be one of few implementation that take advantage of this text, and pad records by a random length.

The TLS implementation in the Symbian operating system, frequently used by Nokia and Sony-Ericsson mobile phones, cannot handle non-minimal record padding. What happens when one of these clients handshake with a GnuTLS server is that the client will fail to compute the correct MAC for the record. The client sends a TLS alert (@code{bad_record_mac}) and disconnects. Typically this will result in error messages such as 'A TLS fatal alert has been received', 'Bad record MAC', or both, on the GnuTLS server side.

GnuTLS implements a work around for this problem. However, it has to be enabled specifically. It can be enabled by using @ref{gnutls_record_disable_padding}, or @ref{gnutls_priority_set} with the @code{%COMPAT} priority string.

If you implement an application that have a configuration file, we recommend that you make it possible for users or administrators to specify a GnuTLS protocol priority string, which is used by your application via @ref{gnutls_priority_set}. To allow the best flexibility, make it possible to have a different priority string for different incoming IP addresses.

To enable the workaround in the @code{gnutls-cli} client or the @code{gnutls-serv} server, for testing of other implementations, use the following parameter: @code{--priority "%COMPAT"}.

This problem has been discussed on mailing lists and in bug reports. This section tries to collect all pieces of information that we know about the problem. If you wish to go back to the old discussions, here are some links:

@url{http://bugs.debian.org/390712}

@url{http://bugs.debian.org/402861}

@url{http://bugs.debian.org/438137}

@url{http://thread.gmane.org/gmane.ietf.tls/3079}

@node Authentication methods

@chapter Authentication Methods

The @acronym{TLS} protocol provides confidentiality and encryption, but also offers authentication, which is a prerequisite for a secure connection. The available authentication methods in @acronym{GnuTLS} are:

@itemize

@item Certificate authentication

@item Anonymous authentication

@item @acronym{SRP} authentication

@item @acronym{PSK} authentication

@end itemize

@menu

* Certificate authentication::

* Anonymous authentication::

* Authentication using SRP::

* Authentication using PSK::

* Authentication and credentials::

* Parameters stored in credentials::

@end menu

@node Certificate authentication

@section Certificate Authentication

@subsection Authentication Using @acronym{X.509} Certificates

@cindex @acronym{X.509} certificates

@acronym{X.509} certificates contain the public parameters, of a public key algorithm, and an authority's signature, which proves the authenticity of the parameters. @xref{The X.509 trust model}, for more information on @acronym{X.509} protocols.

@subsection Authentication Using @acronym{OpenPGP} Keys

@cindex @acronym{OpenPGP} Keys

@acronym{OpenPGP} keys also contain public parameters of a public key algorithm, and signatures from several other parties. Depending on whether a signer is trusted the key is considered trusted or not.

@acronym{GnuTLS}'s @acronym{OpenPGP} authentication implementation is based on the @xcite{TLSPGP} proposal.

@xref{The OpenPGP trust model}, for more information about the

@acronym{OpenPGP} trust model. For a more detailed introduction to @acronym{OpenPGP} and @acronym{GnuPG} see @xcite{GPGH}.

@subsection Using Certificate Authentication

In @acronym{GnuTLS} both the @acronym{OpenPGP} and @acronym{X.509} certificates are part of the certificate authentication and thus are handled using a common API.

When using certificates the server is required to have at least one certificate and private key pair. A client may or may not have such a pair. The certificate and key pair should be loaded, before any @acronym{TLS} session is initialized, in a certificate credentials structure. This should be done by using @ref{gnutls_certificate_set_x509_key_file} or @ref{gnutls_certificate_set_openpgp_key_file} depending on the certificate type. In the @acronym{X.509} case, the functions will also accept and use a certificate list that leads to a trusted authority. The certificate list must be ordered in such way that every certificate certifies the one before it. The trusted authority's certificate need not to be included, since the peer should possess it already.

As an alternative, a callback may be used so the server or the client specify the certificate and the key at the handshake time. That callback can be set using the functions:

@itemize

@item @ref{gnutls_certificate_server_set_retrieve_function}

@item @ref{gnutls_certificate_client_set_retrieve_function}

@end itemize

Certificate verification is possible by loading the trusted authorities into the credentials structure by using @ref{gnutls_certificate_set_x509_trust_file} or @ref{gnutls_certificate_set_openpgp_keyring_file} for openpgp keys. Note however that the peer's certificate is not automatically verified, you should call @ref{gnutls_certificate_verify_peers2}, after a successful handshake, to verify the signatures of the certificate. An alternative way, which reports a more detailed verification output, is to use @ref{gnutls_certificate_get_peers} to obtain the raw certificate of the peer and verify it using the functions discussed in @ref{The X.509 trust model}.

In a handshake, the negotiated cipher suite depends on the

certificate's parameters, so not all key exchange methods will be available with some certificates. `@acronym{GnuTLS}` will disable ciphersuites that are not compatible with the key, or the enabled authentication methods. For example keys marked as sign-only, will not be able to access the plain RSA ciphersuites, but only the `@code{DHE_RSA}` ones. It is recommended not to use RSA keys for both signing and encryption. If possible use the same key for the `@code{DHE_RSA}` and `@code{RSA_EXPORT}` ciphersuites, which use signing, and a different key for the plain RSA ciphersuites, which use encryption. All the key exchange methods shown below are available in certificate authentication.

Note that the DHE key exchange methods are generally slower^{@footnote{It really depends on the group used. Primes with lesser bits are always faster, but also easier to break. Values less than 768 should not be used today}} than plain RSA and require Diffie Hellman parameters to be generated and associated with a credentials structure, by the server. The `@code{RSA-EXPORT}` method also requires 512 bit RSA parameters, that should also be generated and associated with the credentials structure. See the functions:

`@itemize`

`@item @ref{gnutls_dh_params_generate2}`

`@item @ref{gnutls_certificate_set_dh_params}`

`@item @ref{gnutls_rsa_params_generate2}`

`@item @ref{gnutls_certificate_set_rsa_export_params}`

`@end itemize`

Sometimes in order to avoid bottlenecks in programs it is usefull to store and read parameters from formats that can be generated by external programs such as `@code{certtool}`. This is possible with `@acronym{GnuTLS}` by using the following functions:

`@itemize`

`@item @ref{gnutls_dh_params_import_pkcs3}`

`@item @ref{gnutls_rsa_params_import_pkcs1}`

`@item @ref{gnutls_dh_params_export_pkcs3}`

`@item @ref{gnutls_rsa_params_export_pkcs1}`

@end itemize

Key exchange algorithms for @acronym{OpenPGP} and @acronym{X.509} certificates:

@table @code

@item RSA:

The RSA algorithm is used to encrypt a key and send it to the peer. The certificate must allow the key to be used for encryption.

@item RSA_EXPORT:

The RSA algorithm is used to encrypt a key and send it to the peer. In the EXPORT algorithm, the server signs temporary RSA parameters of 512 bits --- which are considered weak --- and sends them to the client.

@item DHE_RSA:

The RSA algorithm is used to sign Ephemeral Diffie-Hellman parameters which are sent to the peer. The key in the certificate must allow the key to be used for signing. Note that key exchange algorithms which use Ephemeral Diffie-Hellman parameters, offer perfect forward secrecy. That means that even if the private key used for signing is compromised, it cannot be used to reveal past session data.

@item DHE_DSS:

The DSS algorithm is used to sign Ephemeral Diffie-Hellman parameters which are sent to the peer. The certificate must contain DSA parameters to use this key exchange algorithm. DSS stands for Digital Signature Standard.

@end table

@node Anonymous authentication

@section Anonymous Authentication

@cindex Anonymous authentication

The anonymous key exchange performs encryption but there is no indication of the identity of the peer. This kind of authentication is vulnerable to a man in the middle attack, but this protocol can be used even if there is no prior communication and trusted parties with the peer, or when full anonymity is required. Unless really required, do not use anonymous authentication. Available key exchange methods are shown below.

Note that the key exchange methods for anonymous authentication require Diffie-Hellman parameters to be generated by the server and associated with an anonymous credentials structure.

Supported anonymous key exchange algorithms:

@table @code

@item ANON_DH:

This algorithm exchanges Diffie-Hellman parameters.

@end table

@node Authentication using SRP

@section Authentication using @acronym{SRP}

@cindex @acronym{SRP} authentication

Authentication via the Secure Remote Password protocol,

@acronym{SRP} @footnote{ @acronym{SRP} is described in @xcite{RFC2945} },

is supported. The @acronym{SRP} key exchange is an extension to the

@acronym{TLS} protocol, and it is a password based authentication

(unlike @acronym{X.509} or @acronym{OpenPGP} that use certificates).

The two peers can be identified using a single password, or there can

be combinations where the client is authenticated using @acronym{SRP}

and the server using a certificate.

The advantage of @acronym{SRP} authentication, over other proposed secure password authentication schemes, is that @acronym{SRP} does not

require the server to hold the user's password. This kind of

protection is similar to the one used traditionally in the @emph{UNIX}

@file{/etc/passwd} file, where the contents of this file did not cause

harm to the system security if they were revealed. The @acronym{SRP}

needs instead of the plain password something called a verifier, which

is calculated using the user's password, and if stolen cannot be used

to impersonate the user. Check @xcite{TOMSRP} for a detailed description

of the @acronym{SRP} protocol and the Stanford @acronym{SRP}

libraries, which includes a PAM module that synchronizes the system's

users passwords with the @acronym{SRP} password files. That way

@acronym{SRP} authentication could be used for all the system's users.

The implementation in @acronym{GnuTLS} is based on paper

@xcite{TLSSRP}. The supported @acronym{SRP} key exchange methods are:

@table @code

@item SRP:

Authentication using the @acronym{SRP} protocol.

@item SRP_DSS:

Client authentication using the @acronym{SRP} protocol. Server is authenticated using a certificate with DSA parameters.

@item SRP_RSA:

Client authentication using the @acronym{SRP} protocol. Server is authenticated using a certificate with RSA parameters.

@end table

If clients supporting @acronym{SRP} know the username and password before the connection, should initialize the client credentials and call the function @ref{gnutls_srp_set_client_credentials}.

Alternatively they could specify a callback function by using the function @ref{gnutls_srp_set_client_credentials_function}. This has the advantage that allows probing the server for @acronym{SRP} support. In that case the callback function will be called twice per handshake. The first time is before the ciphersuite is negotiated, and if the callback returns a negative error code, the callback will be called again if @acronym{SRP} has been negotiated. This uses a special @acronym{TLS}-@acronym{SRP} handshake idiom in order to avoid, in interactive applications, to ask the user for @acronym{SRP} password and username if the server does not negotiate an @acronym{SRP} ciphersuite.

In server side the default behaviour of @acronym{GnuTLS} is to read the usernames and @acronym{SRP} verifiers from password files. These password files are the ones used by the @emph{Stanford srp libraries} and can be specified using the @ref{gnutls_srp_set_server_credentials_file}. If a different password file format is to be used, then the function @ref{gnutls_srp_set_server_credentials_function}, should be called, in order to set an appropriate callback.

Some helper functions such as

@itemize

@item @ref{gnutls_srp_verifier}

@item @ref{gnutls_srp_base64_encode}

@item @ref{gnutls_srp_base64_decode}

@end itemize

are included in @acronym{GnuTLS}, and can be used to generate and maintain @acronym{SRP} verifiers and password files. A program to manipulate the required parameters for @acronym{SRP} authentication is also included. @xref{srptool}, for more information.

@node Authentication using PSK
@section Authentication using @acronym{PSK}
@cindex @acronym{PSK} authentication

Authentication using Pre-shared keys is a method to authenticate using usernames and binary keys. This protocol avoids making use of public key infrastructure and expensive calculations, thus it is suitable for constraint clients.

The implementation in @acronym{GnuTLS} is based on paper @xcite{TLSPSK}. The supported @acronym{PSK} key exchange methods are:

@table @code

@item PSK:
Authentication using the @acronym{PSK} protocol.

@item DHE-PSK:
Authentication using the @acronym{PSK} protocol and Diffie-Hellman key exchange. This method offers perfect forward secrecy.

@end table

Clients supporting @acronym{PSK} should supply the username and key before the connection to the client credentials by calling the function @ref{gnutls_psk_set_client_credentials}. Alternatively they could specify a callback function by using the function @ref{gnutls_psk_set_client_credentials_function}. This has the advantage that the callback will be called only if @acronym{PSK} has been negotiated.

In server side the default behaviour of @acronym{GnuTLS} is to read the usernames and @acronym{PSK} keys from a password file. The password file should contain usernames and keys in hexadecimal format. The name of the password file can be stored to the credentials structure by calling @ref{gnutls_psk_set_server_credentials_file}. If a different password file format is to be used, then the function @ref{gnutls_psk_set_server_credentials_function}, should be used instead.

The server can help the client chose a suitable username and password, by sending a hint. In the server, specify the hint by calling @ref{gnutls_psk_set_server_credentials_hint}. The client can retrieve the hint, for example in the callback function, using @ref{gnutls_psk_client_get_hint}.

There is no standard mechanism to derive a PSK key from a password specified by the TLS PSK document. However, GnuTLS provides @ref{gnutls_psk_netconf_derive_key} which follows the algorithm specified in @file{draft-ietf-netconf-tls-02.txt}.

Some helper functions such as:

```
@itemize
```

```
@item @ref{gnutls_hex_encode}
```

```
@item @ref{gnutls_hex_decode}
```

```
@end itemize
```

are included in `@acronym{GnuTLS}`, and may be used to generate and maintain `@acronym{PSK}` keys.

```
@node Authentication and credentials
```

```
@section Authentication and Credentials
```

In `@acronym{GnuTLS}` every key exchange method is associated with a credentials type. So in order to enable a specific method, the corresponding credentials type should be initialized and set using `@ref{gnutls_credentials_set}`. A mapping is shown below.

Key exchange algorithms and the corresponding credential types:

```
@multitable @columnfractions .3 .3 .3
```

```
@headitem Key exchange @tab Client credentials @tab Server credentials
```

```
@item @code{KX_RSA}
```

```
@item @code{KX_DHE_RSA}
```

```
@item @code{KX_DHE_DSS}
```

```
@item @code{KX_RSA_EXPORT}
```

```
@tab @code{CRD_CERTIFICATE}
```

```
@tab @code{CRD_CERTIFICATE}
```

```
@item @code{KX_SRP_RSA}
```

```
@tab @code{CRD_SRP}
```

```
@tab @code{CRD_SRP}
```

```
@item @code{KX_SRP_DSS}
```

```
@tab
```

```
@tab @code{CRD_CERTIFICATE}
```

```
@item @code{KX_SRP}
```

```
@tab @code{CRD_SRP}
```

```
@tab @code{CRD_SRP}
```

```
@item @code{KX_ANON_DH}
```

```
@tab @code{CRD_ANON}
```

```
@tab @code{CRD_ANON}
```

```
@item @code{KX_PSK}
```

```
@tab @code{CRD_PSK}
```

```
@tab @code{CRD_PSK}
```

```
@end multitable
```

```
@node Parameters stored in credentials
```

```
@section Parameters Stored in Credentials
```

Several parameters such as the ones used for Diffie-Hellman authentication are stored within the credentials structures, so all sessions can access them. Those parameters are stored in structures such as `gnutls_dh_params_t` and `gnutls_rsa_params_t`, and functions like `gnutls_certificate_set_dh_params` and `gnutls_certificate_set_rsa_export_params` can be used to associate those parameters with the given credentials structure.

Since those parameters need to be renewed from time to time and a global structure such as the credentials, may not be easy to modify since it is accessible by all sessions, an alternative interface is available using a callback function. This can be set using the `gnutls_certificate_set_params_function`. An example is shown below.

```
@example
```

```
#include <gnutls.h>
```

```
gnutls_rsa_params_t rsa_params;
```

```
gnutls_dh_params_t dh_params;
```

```
/* This function will be called once a session requests DH  
* or RSA parameters. The parameters returned (if any) will  
* be used for the first handshake only.
```

```
*/
```

```
static int get_params( gnutls_session_t session,
```

```
    gnutls_params_type_t type,
```

```
    gnutls_params_st *st)
```

```
@{
```

```
if (type == GNUTLS_PARAMS_RSA_EXPORT)
```

```
    st->params.rsa_export = rsa_params;
```

```
else if (type == GNUTLS_PARAMS_DH)
```

```
    st->params.dh = dh_params;
```

```
else return -1;
```

```
st->type = type;
```

```

/* do not deinitialize those parameters.
*/
st->deinit = 0;

return 0;
@}

int main()
@{
    gnutls_certificate_credentials_t cert_cred;

    initialize_params();

    /* ...
    */

    gnutls_certificate_set_params_function( cert_cred, get_params);
@}
@end example

```

```

@node More on certificate authentication
@chapter More on Certificate Authentication
@anchor{Certificate Authentication}
@cindex Certificate authentication

```

```

@menu
* The X.509 trust model::
* The OpenPGP trust model::
* Digital signatures::
@end menu

```

```

@node The X.509 trust model
@section The @acronym{X.509} Trust Model
@cindex @acronym{X.509} certificates

```

The @acronym{X.509} protocols rely on a hierarchical trust model. In this trust model Certification Authorities (CAs) are used to certify entities. Usually more than one certification authorities exist, and certification authorities may certify other authorities to issue certificates as well, following a hierarchical model.

```
@image{gnutls-x509,7cm,9.5cm}
```

One needs to trust one or more CAs for his secure communications. In that case only the certificates issued by the trusted authorities are acceptable. See the figure above for a typical example. The API for handling @acronym{X.509} certificates is described at section @ref{sec:x509api}. Some examples are listed below.

```
@menu
* X.509 certificates::
* Verifying X.509 certificate paths::
* PKCS #10 certificate requests::
* PKCS #12 structures::
@end menu
```

```
@node X.509 certificates
@subsection @acronym{X.509} Certificates
```

An @acronym{X.509} certificate usually contains information about the certificate holder, the signer, a unique serial number, expiration dates and some other fields @xcite{RFC3280} as shown in the table below.

```
@table @code
```

```
@item version:
The field that indicates the version of the certificate.
```

```
@item serialNumber:
This field holds a unique serial number per certificate.
```

```
@item issuer:
Holds the issuer's distinguished name.
```

```
@item validity:
The activation and expiration dates.
```

```
@item subject:
The subject's distinguished name of the certificate.
```

```
@item extensions:
The extensions are fields only present in version 3 certificates.
```

```
@end table
```

The certificate's @emph{subject or issuer name} is not just a single string. It is a Distinguished name and in the @acronym{ASN.1} notation is a sequence of several object IDs with their corresponding values. Some of available OIDs to be used in an @acronym{X.509} distinguished name are defined in @file{gnutls/x509.h}.

The @emph{Version} field in a certificate has values either 1 or 3 for version 3 certificates. Version 1 certificates do not support the extensions field so it is not possible to distinguish a CA from a person, thus their usage should be avoided.

The @emph{validity} dates are there to indicate the date that the specific certificate was activated and the date the certificate's key would be considered invalid.

Certificate @emph{extensions} are there to include information about the certificate's subject that did not fit in the typical certificate fields. Those may be e-mail addresses, flags that indicate whether the belongs to a CA etc. All the supported @acronym{X.509} version 3 extensions are shown in the table below.

@table @code

@item subject key id (2.5.29.14):

An identifier of the key of the subject.

@item authority key id (2.5.29.35):

An identifier of the authority's key used to sign the certificate.

@item subject alternative name (2.5.29.17):

Alternative names to subject's distinguished name.

@item key usage (2.5.29.15):

Constraints the key's usage of the certificate.

@item extended key usage (2.5.29.37):

Constraints the purpose of the certificate.

@item basic constraints (2.5.29.19):

Indicates whether this is a CA certificate or not, and specify the maximum path lengths of certificate chains.

@item CRL distribution points (2.5.29.31):

This extension is set by the CA, in order to inform about the issued CRLs.

@item Proxy Certification Information (1.3.6.1.5.5.7.1.14):

Proxy Certificates includes this extension that contains the OID of the proxy policy language used, and can specify limits on the maximum lengths of proxy chains. Proxy Certificates are specified in @xcite{RFC3820}.

@end table

In @acronym{GnuTLS} the @acronym{X.509} certificate structures are handled using the @code{gnutls_x509_cert_t} type and the corresponding private keys with the @code{gnutls_x509_privkey_t} type. All the available functions for @acronym{X.509} certificate handling have their prototypes in @file{gnutls/x509.h}. An example program to demonstrate the @acronym{X.509}

parsing capabilities can be found at section @ref{ex:x509-info}.

@node Verifying X.509 certificate paths

@subsection Verifying @acronym{X.509} Certificate Paths

@cindex Verifying certificate paths

Verifying certificate paths is important in @acronym{X.509} authentication. For this purpose the function @ref{gnutls_x509_cert_verify} is provided. The output of this function is the bitwise OR of the elements of the @code{gnutls_certificate_status_t} enumeration. A detailed description of these elements can be found in figure below. The function @ref{gnutls_certificate_verify_peers2} is equivalent to the previous one, and will verify the peer's certificate in a TLS session.

@table @code

@item CERT_INVALID:

The certificate is not signed by one of the known authorities, or the signature is invalid.

@item CERT_REVOKED:

The certificate has been revoked by its CA.

@item CERT_SIGNER_NOT_FOUND:

The certificate's issuer is not known. This is the case when the issuer is not in the trusted certificates list.

@item GNUTLS_CERT_SIGNER_NOT_CA:

The certificate's signer was not a CA. This may happen if this was a version 1 certificate, which is common with some CAs, or a version 3 certificate without the basic constraints extension.

@anchor{GNUTLS_CERT_INSECURE_ALGORITHM}

@item GNUTLS_CERT_INSECURE_ALGORITHM:

The certificate was signed using an insecure algorithm such as MD2 or MD5. These algorithms have been broken and should not be trusted.

@end table

There is also to possibility to pass some input to the verification functions in the form of flags. For @ref{gnutls_x509_cert_verify} the flags are passed straightforward, but @ref{gnutls_certificate_verify_peers2} depends on the flags set by calling @ref{gnutls_certificate_set_verify_flags}. All the available flags are part of the enumeration @ref{gnutls_certificate_verify_flags} and are explained in the table below.

@anchor{gnutls_certificate_verify_flags}

@tindex gnutls_certificate_verify_flags

@table @code

@item GNUTLS_VERIFY_DISABLE_CA_SIGN:

If set a signer does not have to be a certificate authority. This flag should normally be disabled, unless you know what this means.

@item GNUTLS_VERIFY_ALLOW_X509_V1_CA_CERT:

Allow only trusted CA certificates that have version 1. This is safer than GNUTLS_VERIFY_ALLOW_ANY_X509_V1_CA_CERT, and should be used instead. That way only signers in your trusted list will be allowed to have certificates of version 1.

@item GNUTLS_VERIFY_ALLOW_ANY_X509_V1_CA_CERT:

Allow CA certificates that have version 1 (both root and intermediate). This is dangerous since those haven't the basicConstraints extension. Must be used in combination with GNUTLS_VERIFY_ALLOW_X509_V1_CA_CERT.

@item GNUTLS_VERIFY_DO_NOT_ALLOW_SAME:

If a certificate is not signed by anyone trusted but exists in the trusted CA list do not treat it as trusted.

@item GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD2:

Allow certificates to be signed using the old MD2 algorithm.

@item GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5:

Allow certificates to be signed using the broken MD5 algorithm.

@end table

Although the verification of a certificate path indicates that the certificate is signed by trusted authority, does not reveal anything about the peer's identity. It is required to verify if the certificate's owner is the one you expect. For more information consult @xcite{RFC2818} and section @ref{ex:verify} for an example.

@node PKCS #10 certificate requests

@subsection @acronym{PKCS} #10 Certificate Requests

@cindex Certificate requests

@cindex @acronym{PKCS} #10

A certificate request is a structure, which contain information about an applicant of a certificate service. It usually contains a private key, a distinguished name and secondary data such as a challenge password. @acronym{GnuTLS} supports the requests defined in @acronym{PKCS} #10 @xcite{RFC2986}. Other certificate request's format such as PKIX's @xcite{RFC4211} are not currently supported.

In @acronym{GnuTLS} the @acronym{PKCS} #10 structures are handled using the @code{gnutls_x509_crq_t} type. An example of a certificate request generation can be found at section @ref{ex:crq}.

@node PKCS #12 structures
@subsection @acronym{PKCS} #12 Structures
@cindex @acronym{PKCS} #12

A @acronym{PKCS} #12 structure @xcite{PKCS12} usually contains a user's private keys and certificates. It is commonly used in browsers to export and import the user's identities.

In @acronym{GnuTLS} the @acronym{PKCS} #12 structures are handled using the @code{gnutls_pkcs12_t} type. This is an abstract type that may hold several @code{gnutls_pkcs12_bag_t} types. The Bag types are the holders of the actual data, which may be certificates, private keys or encrypted data. An Bag of type encrypted should be decrypted in order for its data to be accessed.

An example of a @acronym{PKCS} #12 structure generation can be found at section @ref{ex:pkcs12}.

@node The OpenPGP trust model
@section The @acronym{OpenPGP} Trust Model
@cindex @acronym{OpenPGP} Keys

The @acronym{OpenPGP} key authentication relies on a distributed trust model, called the ``web of trust''. The ``web of trust'' uses a decentralized system of trusted introducers, which are the same as a CA. @acronym{OpenPGP} allows anyone to sign anyone's else public key. When Alice signs Bob's key, she is introducing Bob's key to anyone who trusts Alice. If someone trusts Alice to introduce keys, then Alice is a trusted introducer in the mind of that observer.

@image{gnutls-pgp,11cm,9cm}

For example: If David trusts Alice to be an introducer, and Alice signed Bob's key, Dave also trusts Bob's key to be the real one.

There are some key points that are important in that model. In the example Alice has to sign Bob's key, only if she is sure that the key belongs to Bob. Otherwise she may also make Dave falsely believe that this is Bob's key. Dave has also the responsibility to know who to trust. This model is similar to real life relations.

Just see how Charlie behaves in the previous example. Although he has signed Bob's key - because he knows, somehow, that it belongs to Bob -

he does not trust Bob to be an introducer. Charlie decided to trust only Kevin, for some reason. A reason could be that Bob is lazy enough, and signs other people's keys without being sure that they belong to the actual owner.

@subsection @acronym{OpenPGP} Keys

In @acronym{GnuTLS} the @acronym{OpenPGP} key structures @xcite{RFC2440} are handled using the @code{gnutls_openpgp_cert_t} type and the corresponding private keys with the @code{gnutls_openpgp_privkey_t} type. All the prototypes for the key handling functions can be found at @file{gnutls/openpgp.h}.

@subsection Verifying an @acronym{OpenPGP} Key

The verification functions of @acronym{OpenPGP} keys, included in @acronym{GnuTLS}, are simple ones, and do not use the features of the ``web of trust''. For that reason, if the verification needs are complex, the assistance of external tools like @acronym{GnuPG} and GPGME (@url{http://www.gnupg.org/related_software/gpgme/}) is recommended.

There is one verification function in @acronym{GnuTLS}, the @ref{gnutls_openpgp_cert_verify_ring}.

This checks an @acronym{OpenPGP} key against a given set of public keys (keyring) and returns the key status. The key verification status is the same as in @acronym{X.509} certificates, although the meaning and interpretation are different. For example an @acronym{OpenPGP} key may be valid, if the self signature is ok, even if no signers were found. The meaning of verification status is shown in the figure below.

@table @code

@item CERT_INVALID:

A signature on the key is invalid. That means that the key was modified by somebody, or corrupted during transport.

@item CERT_REVOKED:

The key has been revoked by its owner.

@item CERT_SIGNER_NOT_FOUND:

The key was not signed by a known signer.

@item GNUTLS_CERT_INSECURE_ALGORITHM:

The certificate was signed using an insecure algorithm such as MD2 or MD5. These algorithms have been broken and should not be trusted.

@end table

@node Digital signatures
@section Digital Signatures
@cindex Digital signatures

In this section we will provide some information about digital signatures, how they work, and give the rationale for disabling some of the algorithms used.

Digital signatures work by using somebody's secret key to sign some arbitrary data. Then anybody else could use the public key of that person to verify the signature. Since the data may be arbitrary it is not suitable input to a cryptographic digital signature algorithm. For this reason and also for performance cryptographic hash algorithms are used to preprocess the input to the signature algorithm. This works as long as it is difficult enough to generate two different messages with the same hash algorithm output. In that case the same signature could be used as a proof for both messages. Nobody wants to sign an innocent message of donating 1 @euro{} to Greenpeace and find out that he donated 1.000.000 @euro{} to Bad Inc.

For a hash algorithm to be called cryptographic the following three requirements must hold:

@enumerate

@item Preimage resistance.

That means the algorithm must be one way and given the output of the hash function @math{H(x)}, it is impossible to calculate @math{x}.

@item 2nd preimage resistance.

That means that given a pair @math{x,y} with @math{y=H(x)} it is impossible to calculate an @math{x'} such that @math{y=H(x')}.

@item Collision resistance.

That means that it is impossible to calculate random @math{x} and @math{x'} such @math{H(x')=H(x)}.

@end enumerate

The last two requirements in the list are the most important in digital signatures. These protect against somebody who would like to generate two messages with the same hash output. When an algorithm is considered broken usually it means that the Collision resistance of the algorithm is less than brute force. Using the birthday paradox the brute force attack takes

@iftex

@math{2^{\lfloor \text{hash size} \rfloor / 2}}

@end iftex

@ifnottex

`@math{2^{\lceil(\text{hash size}) / 2\rceil}}`

`@end ifnottex`

operations. Today colliding certificates using the MD5 hash algorithm have been generated as shown in `@xcite{WEGER}`.

There has been cryptographic results for the SHA-1 hash algorithms as well, although they are not yet critical. Before 2004, MD5 had a presumed collision strength of `@math{2^{64}}`, but it has been showed to have a collision strength well under `@math{2^{50}}`. As of November 2005, it is believed that SHA-1's collision strength is around `@math{2^{63}}`. We consider this sufficiently hard so that we still support SHA-1. We anticipate that SHA-256/386/512 will be used in publicly-distributed certificates in the future. When `@math{2^{63}}` can be considered too weak compared to the computer power available sometime in the future, SHA-1 will be disabled as well. The collision attacks on SHA-1 may also get better, given the new interest in tools for creating them.

`@subsection Trading Security for Interoperability`

If you connect to a server and use GnuTLS' functions to verify the certificate chain, and get a `@ref{GNUTLS_CERT_INSECURE_ALGORITHM}` validation error (`@pxref{Verifying X.509 certificate paths}`), it means that somewhere in the certificate chain there is a certificate signed using `@code{RSA-MD2}` or `@code{RSA-MD5}`. These two digital signature algorithms are considered broken, so GnuTLS fail when attempting to verify the certificate. In some situations, it may be useful to be able to verify the certificate chain anyway, assuming an attacker did not utilize the fact that these signatures algorithms are broken. This section will give help on how to achieve that.

First, it is important to know that you do not have to enable any of the flags discussed here to be able to use trusted root CA certificates signed using `@code{RSA-MD2}` or `@code{RSA-MD5}`. The only attack today is that it is possible to generate certificates with colliding signatures (collision resistance); you cannot generate a certificate that has the same signature as an already existing signature (2nd preimage resistance).

If you are using `@ref{gnutls_certificate_verify_peers2}` to verify the certificate chain, you can call

`@ref{gnutls_certificate_set_verify_flags}` with the `@code{GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD2}` or `@code{GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5}` flag, as in:

`@example`

```
gnutls_certificate_set_verify_flags(x509cred,  
                                   GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5);
```

@end example

This will tell the verifier algorithm to enable @code{RSA-MD5} when verifying the certificates.

If you are using @ref{gnutls_x509_cert_verify} or @ref{gnutls_x509_cert_list_verify}, you can pass the @code{GNUTLS_VERIFY_ALLOW_SIGN_RSA_MD5} parameter directly in the @code{flags} parameter.

If you are using these flags, it may also be a good idea to warn the user when verification failure occur for this reason. The simplest is to not use the flags by default, and only fall back to using them after warning the user. If you wish to inspect the certificate chain yourself, you can use @ref{gnutls_certificate_get_peers} to extract the raw server's certificate chain, then use @ref{gnutls_x509_cert_import} to parse each of the certificates, and then use @ref{gnutls_x509_cert_get_signature_algorithm} to find out the signing algorithm used for each certificate. If any of the intermediary certificates are using @code{GNUTLS_SIGN_RSA_MD2} or @code{GNUTLS_SIGN_RSA_MD5}, you could present a warning.

@node How to use TLS in application protocols

@chapter How To Use @acronym{TLS} in Application Protocols

This chapter is intended to provide some hints on how to use the @acronym{TLS} over simple custom made application protocols. The discussion below mainly refers to the @emph{TCP/IP} transport layer but may be extended to other ones too.

@menu

* Separate ports::

* Upward negotiation::

@end menu

@node Separate ports

@section Separate Ports

Traditionally @acronym{SSL} was used in application protocols by assigning a new port number for the secure services. That way two separate ports were assigned, one for the non secure sessions, and one for the secured ones. This has the benefit that if a user requests a secure session then the client will try to connect to the secure port and fail otherwise. The only possible attack with this method is a denial of service one. The most famous example of this method is the famous ``HTTP over TLS" or @acronym{HTTPS} protocol @xcite{RFC2818}.

Despite its wide use, this method is not as good as it seems. This approach starts the `@acronym{TLS}` Handshake procedure just after the client connects on the ---so called--- secure port. That way the `@acronym{TLS}` protocol does not know anything about the client, and popular methods like the host advertising in HTTP do not work^{@footnote{See also the Server Name Indication extension on @ref{serverind}.}}. There is no way for the client to say "I connected to YYY server" before the Handshake starts, so the server cannot possibly know which certificate to use.

Other than that it requires two separate ports to run a single service, which is unnecessary complication. Due to the fact that there is a limitation on the available privileged ports, this approach was soon obsoleted.

`@node` Upward negotiation
`@section` Upward Negotiation

Other application protocols^{@footnote{See LDAP, IMAP etc.}} use a different approach to enable the secure layer. They use something called the "STARTTLS" method. This method is quite tricky but it is more flexible. The idea is to extend the application protocol to have a "STARTTLS" request, whose purpose it to start the TLS protocols just after the client requests it. This is a really neat idea and does not require an extra port.

This method is used by almost all modern protocols and there is even the `@xcite{RFC2817}` paper which proposes extensions to HTTP to support it.

The tricky part, in this method, is that the "STARTTLS" request is sent in the clear, thus is vulnerable to modifications. A typical attack is to modify the messages in a way that the client is fooled and thinks that the server does not have the "STARTTLS" capability. See a typical conversation of a hypothetical protocol:

`@quotation`
(client connects to the server)

CLIENT: HELLO I'M MR. XXX

SERVER: NICE TO MEET YOU XXX

CLIENT: PLEASE START TLS

SERVER: OK

*** TLS STARTS

CLIENT: HERE ARE SOME CONFIDENTIAL DATA
@end quotation

And see an example of a conversation where someone is acting
in between:

@quotation
(client connects to the server)

CLIENT: HELLO I'M MR. XXX

SERVER: NICE TO MEET YOU XXX

CLIENT: PLEASE START TLS

(here someone inserts this message)

SERVER: SORRY I DON'T HAVE THIS CAPABILITY

CLIENT: HERE ARE SOME CONFIDENTIAL DATA
@end quotation

As you can see above the client was fooled, and was dummy enough to
send the confidential data in the clear.

How to avoid the above attack? As you may have already thought this
one is easy to avoid. The client has to ask the user before it
connects whether the user requests @acronym{TLS} or not. If the user
answered that he certainly wants the secure layer the last
conversation should be:

@quotation
(client connects to the server)

CLIENT: HELLO I'M MR. XXX

SERVER: NICE TO MEET YOU XXX

CLIENT: PLEASE START TLS

(here someone inserts this message)

SERVER: SORRY I DON'T HAVE THIS CAPABILITY

CLIENT: BYE

(the client notifies the user that the secure connection was not possible)

@end quotation

This method, if implemented properly, is far better than the traditional method, and the security properties remain the same, since only denial of service is possible. The benefit is that the server may request additional data before the @acronym{TLS} Handshake protocol starts, in order to send the correct certificate, use the correct password file@footnote{in @acronym{SRP} authentication}, or anything else!

@node How to use GnuTLS in applications

@chapter How To Use @acronym{GnuTLS} in Applications

@anchor{examples}

@cindex Example programs

@menu

* Preparation::

* Multi-threaded applications::

* Client examples::

* Server examples::

* Miscellaneous examples::

* Compatibility with the OpenSSL library::

* Opaque PRF Input TLS Extension::

* Keying Material Exporters::

@end menu

@node Preparation

@section Preparation

To use @acronym{GnuTLS}, you have to perform some changes to your sources and your build system. The necessary changes are explained in the following subsections.

@menu

* Headers::

* Initialization::

* Version check::

* Debugging::

* Building the source::

@end menu

@node Headers

@subsection Headers

All the data types and functions of the @acronym{GnuTLS} library are defined in the header file @file{gnutls/gnutls.h}. This must be included in all programs that make use of the @acronym{GnuTLS}

library.

The extra functionality of the @acronym{GnuTLS-extra} library is available by including the header file @file{gnutls/extra.h} in your programs.

@node Initialization

@subsection Initialization

GnuTLS must be initialized before it can be used. The library is initialized by calling @ref{gnutls_global_init}. The resources allocated by the initialization process can be released if the application no longer has a need to call GnuTLS functions, this is done by calling @ref{gnutls_global_deinit}.

The extra functionality of the @acronym{GnuTLS-extra} library is available after calling @ref{gnutls_global_init_extra}.

In order to take advantage of the internationalisation features in GnuTLS, such as translated error messages, the application must set the current locale using @code{setlocale} before initializing GnuTLS.

@node Version check

@subsection Version Check

It is often desirable to check that the version of `gnutls' used is indeed one which fits all requirements. Even with binary compatibility new features may have been introduced but due to problem with the dynamic linker an old version is actually used. So you may want to check that the version is okay right after program startup. See the function @ref{gnutls_check_version}.

@node Debugging

@subsection Debugging

In many cases things may not go as expected and further information, to assist debugging, from @acronym{GnuTLS} is desired. Those are the case where the @ref{gnutls_global_set_log_level} and @ref{gnutls_global_set_log_function} are to be used. Those will print verbose information on the @acronym{GnuTLS} functions internal flow.

@node Building the source

@subsection Building the Source

If you want to compile a source file including the @file{gnutls/gnutls.h} header file, you must make sure that the compiler can find it in the directory hierarchy. This is accomplished by adding the path to the directory in which the header file is

located to the compilers include file search path (via the `@option{-I} option`).

However, the path to the include file is determined at the time the source is configured. To solve this problem, the library uses the external package `@command{pkg-config}` that knows the path to the include file and other configuration options. The options that need to be added to the compiler invocation at compile time are output by the `@option{--cflags}` option to `@command{pkg-config libgnutls}`. The following example shows how it can be used at the command line:

```
@example
gcc -c foo.c `pkg-config libgnutls --cflags`
@end example
```

Adding the output of `@samp{pkg-config libgnutls --cflags}` to the compilers command line will ensure that the compiler can find the `@file{gnutls/gnutls.h}` header file.

A similar problem occurs when linking the program with the library. Again, the compiler has to find the library files. For this to work, the path to the library files has to be added to the library search path (via the `@option{-L}` option). For this, the option `@option{--libs}` to `@command{pkg-config libgnutls}` can be used. For convenience, this option also outputs all other options that are required to link the program with the library (for instance, the `@samp{-ltasn1}` option). The example shows how to link `@file{foo.o}` with the library to a program `@command{foo}`.

```
@example
gcc -o foo foo.o `pkg-config libgnutls --libs`
@end example
```

Of course you can also combine both examples to a single command by specifying both options to `@command{pkg-config}`:

```
@example
gcc -o foo foo.c `pkg-config libgnutls --cflags --libs`
@end example
```

```
@node Multi-threaded applications
@section Multi-Threaded Applications
```

Although the `@acronym{GnuTLS}` library is thread safe by design, some parts of Libgcrypt, such as the random generator, are not. Applications have to register callback functions to ensure proper locking in the sensitive parts of `@emph{libgcrypt}`.

There are helper macros to help you properly initialize the libraries.
Examples are shown below.

@itemize

@item POSIX threads

@example

```
#include <gnutls.h>
#include <gcrypt.h>
#include <errno.h>
#include <pthread.h>
GCRY_THREAD_OPTION_PTHREAD_IMPL;
```

```
int main()
```

```
@{
```

```
/* The order matters.
```

```
*/
```

```
gcry_control (GCRYCTL_SET_THREAD_CBS, &gcry_threads_pthread);
```

```
gnutls_global_init();
```

```
@}
```

@end example

@item GNU PTH threads

@example

```
#include <gnutls.h>
#include <gcrypt.h>
#include <errno.h>
#include <pth.h>
GCRY_THREAD_OPTION_PTH_IMPL;
```

```
int main()
```

```
@{
```

```
gcry_control (GCRYCTL_SET_THREAD_CBS, &gcry_threads_pth);
```

```
gnutls_global_init();
```

```
@}
```

@end example

@item Other thread packages

@example

```
/* The gcry_thread_cbs structure must have been
```

```
* initialized.
```

```
*/
```

```
static struct gcry_thread_cbs gcry_threads_other = @{ ... @};
```

```
int main()
```

```
@{
```

```
gcry_control (GCRYCTL_SET_THREAD_CBS, &gcry_threads_other);
```

```
@}
```

@end example

@end itemize

@node Client examples

@section Client Examples

This section contains examples of @acronym{TLS} and @acronym{SSL} clients, using @acronym{GnuTLS}. Note that these examples contain little or no error checking. Some of the examples require functions implemented by another example.

@menu

* Simple client example with anonymous authentication::

* Simple client example with X.509 certificate support::

* Obtaining session information::

* Verifying peer's certificate::

* Using a callback to select the certificate to use::

* Client with Resume capability example::

* Simple client example with SRP authentication::

* Simple client example with TLS/IA support::

* Simple client example in C++::

* Helper function for TCP connections::

@end menu

@node Simple client example with anonymous authentication

@subsection Simple Client Example with Anonymous Authentication

The simplest client using TLS is the one that doesn't do any authentication. This means no external certificates or passwords are needed to set up the connection. As could be expected, the connection is vulnerable to man-in-the-middle (active or redirection) attacks. However, the data is integrity and privacy protected.

@verbatiminclude examples/ex-client1.c

@node Simple client example with X.509 certificate support

@subsection Simple Client Example with @acronym{X.509} Certificate Support

Let's assume now that we want to create a TCP client which communicates with servers that use @acronym{X.509} or @acronym{OpenPGP} certificate authentication. The following client is a very simple @acronym{TLS} client, it does not support session resuming, not even certificate verification. The TCP functions defined in this example are used in most of the other examples below, without redefining them.

@verbatiminclude examples/ex-client2.c

@node Obtaining session information
@subsection Obtaining Session Information

Most of the times it is desirable to know the security properties of the current established session. This includes the underlying ciphers and the protocols involved. That is the purpose of the following function. Note that this function will print meaningful values only if called after a successful @ref{gnutls_handshake}.

@verbatiminclude examples/ex-session-info.c

@node Verifying peer's certificate
@subsection Verifying Peer's Certificate
@anchor{ex:verify}

A @acronym{TLS} session is not secure just after the handshake procedure has finished. It must be considered secure, only after the peer's certificate and identity have been verified. That is, you have to verify the signature in peer's certificate, the hostname in the certificate, and expiration dates. Just after this step you should treat the connection as being a secure one.

@verbatiminclude examples/ex-rfc2818.c

An other example is listed below which provides a more detailed verification output.

@verbatiminclude examples/ex-verify.c

@node Using a callback to select the certificate to use
@subsection Using a Callback to Select the Certificate to Use

There are cases where a client holds several certificate and key pairs, and may not want to load all of them in the credentials structure. The following example demonstrates the use of the certificate selection callback.

@verbatiminclude examples/ex-cert-select.c

@node Client with Resume capability example
@subsection Client with Resume Capability Example
@anchor{ex:resume-client}

This is a modification of the simple client example. Here we demonstrate the use of session resumption. The client tries to connect once using @acronym{TLS}, close the connection and then try to establish a new connection using the previously negotiated data.

@verbatiminclude examples/ex-client-resume.c

@node Simple client example with SRP authentication

@subsection Simple Client Example with @acronym{SRP} Authentication

The following client is a very simple @acronym{SRP} @acronym{TLS} client which connects to a server and authenticates using a @emph{username} and a @emph{password}. The server may authenticate itself using a certificate, and in that case it has to be verified.

@verbatiminclude examples/ex-client-srp.c

@node Simple client example with TLS/IA support

@subsection Simple Client Example with @acronym{TLS/IA} Support

The following client is a simple client which uses the @acronym{TLS/IA} extension to authenticate with the server.

@verbatiminclude examples/ex-client-tlsia.c

@node Simple client example in C++

@subsection Simple Client Example using the C++ API

The following client is a simple example of a client client utilizing the GnuTLS C++ API.

@verbatiminclude examples/ex-cxx.cpp

@node Helper function for TCP connections

@subsection Helper Function for TCP Connections

This helper function abstracts away TCP connection handling from the other examples. It is required to build some examples.

@verbatiminclude examples/tcp.c

@node Server examples

@section Server Examples

This section contains examples of @acronym{TLS} and @acronym{SSL} servers, using @acronym{GnuTLS}.

@menu

- * Echo Server with X.509 authentication::
- * Echo Server with X.509 authentication II::
- * Echo Server with OpenPGP authentication::
- * Echo Server with SRP authentication::
- * Echo Server with anonymous authentication::

@end menu

@node Echo Server with X.509 authentication

@subsection Echo Server with @acronym{X.509} Authentication

This example is a very simple echo server which supports

@acronym{X.509} authentication, using the RSA ciphersuites.

@verbatiminclude examples/ex-serv1.c

@node Echo Server with X.509 authentication II

@subsection Echo Server with @acronym{X.509} Authentication II

The following example is a server which supports @acronym{X.509} authentication. This server supports the export-grade cipher suites, the DHE ciphersuites and session resuming.

@verbatiminclude examples/ex-serv-export.c

@node Echo Server with OpenPGP authentication

@subsection Echo Server with @acronym{OpenPGP} Authentication

@cindex @acronym{OpenPGP} Server

The following example is an echo server which supports

@acronym{@acronym{OpenPGP}} key authentication. You can easily combine this functionality ---that is have a server that supports both

@acronym{X.509} and @acronym{OpenPGP} certificates--- but we separated them to keep these examples as simple as possible.

@verbatiminclude examples/ex-serv-pgp.c

@node Echo Server with SRP authentication

@subsection Echo Server with @acronym{SRP} Authentication

This is a server which supports @acronym{SRP} authentication. It is also possible to combine this functionality with a certificate server. Here it is separate for simplicity.

@verbatiminclude examples/ex-serv-srp.c

@node Echo Server with anonymous authentication

@subsection Echo Server with Anonymous Authentication

This example server support anonymous authentication, and could be used to serve the example client for anonymous authentication.

@verbatiminclude examples/ex-serv-anon.c

@node Miscellaneous examples
@section Miscellaneous Examples

@menu
* Checking for an alert::
* X.509 certificate parsing example::
* Certificate request generation::
* PKCS #12 structure generation::
@end menu

@node Checking for an alert
@subsection Checking for an Alert

This is a function that checks if an alert has been received in the current session.

@verbatiminclude examples/ex-alert.c

@node X.509 certificate parsing example
@subsection @acronym{X.509} Certificate Parsing Example
@anchor{ex:x509-info}

To demonstrate the @acronym{X.509} parsing capabilities an example program is listed below. That program reads the peer's certificate, and prints information about it.

@verbatiminclude examples/ex-x509-info.c

@node Certificate request generation
@subsection Certificate Request Generation
@anchor{ex:crq}

The following example is about generating a certificate request, and a private key. A certificate request can be later be processed by a CA, which should return a signed certificate.

@verbatiminclude examples/ex-crq.c

@node PKCS #12 structure generation
@subsection @acronym{PKCS} #12 Structure Generation
@anchor{ex:pkcs12}

The following example is about generating a @acronym{PKCS} #12 structure.

@verbatiminclude examples/ex-pkcs12.c

@node Compatibility with the OpenSSL library

@section Compatibility with the OpenSSL Library

@cindex OpenSSL

To ease @acronym{GnuTLS}' integration with existing applications, a compatibility layer with the widely used OpenSSL library is included in the @code{gnutls-openssl} library. This compatibility layer is not complete and it is not intended to completely reimplement the OpenSSL API with @acronym{GnuTLS}. It only provides source-level compatibility. There is currently no attempt to make it binary-compatible with OpenSSL.

The prototypes for the compatibility functions are in the @file{gnutls/openssl.h} header file.

Current limitations imposed by the compatibility layer include:

@itemize

@item Error handling is not thread safe.

@end itemize

@node Opaque PRF Input TLS Extension

@section Opaque PRF Input TLS Extension

@cindex Opaque PRF Input

GnuTLS supports the Opaque PRF Input TLS extension (@code{draft-rescorla-tls-opaque-prf-input-00.txt}). The API consists of one API for use in the client, @ref{gnutls_oprfi_enable_client}, and one API for use in the server, @ref{gnutls_oprfi_enable_server}. You must invoke both functions before calling @ref{gnutls_handshake}. The server utilizes a callback function into the application. The callback can look at the random string provided by the client, and also set the server string. The string lengths must be equal according to the protocol.

@node Keying Material Exporters

@section Keying Material Exporters

@cindex Keying Material Exporters

@cindex Exporting Keying Material

The TLS PRF can be used by other protocols to derive data. The API to use is @ref{gnutls_prf}. The function needs to be provided with the label in the parameter @code{label}, and the extra data to mix in the @code{extra} parameter. Depending on whether you want to mix in the client or server random data first, you can set the @code{server_random_first} parameter.

For example, after establishing a TLS session using `@ref{gnutls_handshake}`, you can invoke the TLS PRF with this call:

```
@smallexample
#define MYLABEL "EXPORTER-FOO"
#define MYCONTEXT "some context data"
char out[32];
rc = gnutls_prf (session, strlen (MYLABEL), MYLABEL, 0,
                strlen (MYCONTEXT), MYCONTEXT, 32, out);
@end smallexample
```

If you don't want to mix in the client/server random, there is a more low-level TLS PRF interface called `@ref{gnutls_prf_raw}`.

```
@node Included programs
@chapter Included Programs
```

Included with `@acronym{GnuTLS}` are also a few command line tools that let you use the library for common tasks without writing an application. The applications are discussed in this chapter.

```
@menu
* Invoking certtool::
* Invoking gnutls-cli::
* Invoking gnutls-cli-debug::
* Invoking gnutls-serv::
* Invoking psktool::
* Invoking srptool::
@end menu
```

```
@node Invoking certtool
@section Invoking certtool
@cindex certtool
```

This is a program to generate `@acronym{X.509}` certificates, certificate requests, CRLs and private keys.

```
@verbatim
Certtool help
Usage: certtool [options]
  -s, --generate-self-signed
                        Generate a self-signed certificate.
  -c, --generate-certificate
                        Generate a signed certificate.
  --generate-proxy      Generate a proxy certificate.
  --generate-crl        Generate a CRL.
  -u, --update-certificate
                        Update a signed certificate.
```

-p, --generate-privkey Generate a private key.
 -q, --generate-request Generate a PKCS #10 certificate request.
 -e, --verify-chain Verify a PEM encoded certificate chain.
 The last certificate in the chain must be a self signed one.
 --verify-crl Verify a CRL.
 --generate-dh-params Generate PKCS #3 encoded Diffie-Hellman parameters.
 --get-dh-params Get the included PKCS #3 encoded Diffie Hellman parameters.
 --load-privkey FILE Private key file to use.
 --load-request FILE Certificate request file to use.
 --load-certificate FILE Certificate file to use.
 --load-ca-privkey FILE Certificate authority's private key file to use.
 --load-ca-certificate FILE Certificate authority's certificate file to use.
 --password PASSWORD Password to use.
 -i, --certificate-info Print information on a certificate.
 -l, --crl-info Print information on a CRL.
 --p12-info Print information on a PKCS #12 structure.
 --p7-info Print information on a PKCS #7 structure.
 --smime-to-p7 Convert S/MIME to PKCS #7 structure.
 -k, --key-info Print information on a private key.
 --fix-key Regenerate the parameters in a private key.
 --to-p12 Generate a PKCS #12 structure.
 -8, --pkcs8 Use PKCS #8 format for private keys.
 --dsa Use DSA keys.
 --hash STR Hash algorithm to use for signing (MD5,SHA1,RMD160).
 --export-ciphers Use weak encryption algorithms.
 --inder Use DER format for input certificates and private keys.
 --outder Use DER format for output certificates and private keys.
 --bits BITS specify the number of bits for key generation.
 --outfile FILE Output file.
 --infile FILE Input file.
 --template FILE Template file to use for non interactive operation.
 -d, --debug LEVEL specify the debug level. Default is 1.

-h, --help shows this help text
-v, --version shows the program's version
@end verbatim

The program can be used interactively or non interactively by specifying the @code{--template} command line option. See below for an example of a template file.

How to use certtool interactively:

@itemize

@item

To generate parameters for Diffie-Hellman key exchange, use the command:

@example

```
$ certtool --generate-dh-params --outfile dh.pem
```

@end example

@item

To generate parameters for the RSA-EXPORT key exchange, use the command:

@example

```
$ certtool --generate-privkey --bits 512 --outfile rsa.pem
```

@end example

@end itemize

@itemize

@item

To create a self signed certificate, use the command:

@example

```
$ certtool --generate-privkey --outfile ca-key.pem
```

```
$ certtool --generate-self-signed --load-privkey ca-key.pem \  
--outfile ca-cert.pem
```

@end example

Note that a self-signed certificate usually belongs to a certificate authority, that signs other certificates.

@item

To create a private key (RSA by default), run:

@example

```
$ certtool --generate-privkey --outfile key.pem
```

@end example

To create a DSA private key, run:

@example

```
$ certtool --dsa --generate-privkey --outfile key-dsa.pem
@end example
```

@item

To generate a certificate using the private key, use the command:

```
@example
$ certtool --generate-certificate --load-privkey key.pem \
  --outfile cert.pem --load-ca-certificate ca-cert.pem \
  --load-ca-privkey ca-key.pem
@end example
```

@item

To create a certificate request (needed when the certificate is issued by another party), run:

```
@example
$ certtool --generate-request --load-privkey key.pem \
  --outfile request.pem
@end example
```

@item

To generate a certificate using the previous request, use the command:

```
@example
$ certtool --generate-certificate --load-request request.pem \
  --outfile cert.pem \
  --load-ca-certificate ca-cert.pem --load-ca-privkey ca-key.pem
@end example
```

@item

To view the certificate information, use:

```
@example
$ certtool --certificate-info --infile cert.pem
@end example
```

@item

To generate a @acronym{PKCS} #12 structure using the previous key and certificate, use the command:

```
@example
$ certtool --load-certificate cert.pem --load-privkey key.pem \
  --to-p12 --outder --outfile key.p12
@end example
```

@item

Proxy certificate can be used to delegate your credential to a

temporary, typically short-lived, certificate. To create one from the previously created certificate, first create a temporary key and then generate a proxy certificate for it, using the commands:

```
@example
$ certtool --generate-privkey > proxy-key.pem
$ certtool --generate-proxy --load-ca-privkey key.pem \
--load-privkey proxy-key.pem --load-certificate cert.pem \
--outfile proxy-cert.pem
@end example
```

@item

To create an empty Certificate Revocation List (CRL) do:

```
@example
$ certtool --generate-crl --load-ca-privkey x509-ca-key.pem --load-ca-certificate x509-ca.pem
@end example
```

To create a CRL that contains some revoked certificates, place the certificates in a file and use `--load-certificate` as follows:

```
@example
$ certtool --generate-crl --load-ca-privkey x509-ca-key.pem --load-ca-certificate x509-ca.pem --load-certificate
revoked-certs.pem
@end example
```

@item

To verify a Certificate Revocation List (CRL) do:

```
@example
$ certtool --verify-crl --load-ca-certificate x509-ca.pem < crl.pem
@end example
```

@end itemize

Certtool's template file format:

@itemize

@item

Firstly create a file named 'cert.cfg' that contains the information about the certificate. An example file is listed below.

@item

Then execute:

```
@example
$ certtool --generate-certificate cert.pem --load-privkey key.pem \
```

```
--template cert.cfg \  
--load-ca-certificate ca-cert.pem --load-ca-privkey ca-key.pem  
@end example
```

```
@end itemize
```

An example certtool template file:

```
@example  
# X.509 Certificate options  
#  
# DN options  
  
# The organization of the subject.  
organization = "Koko inc."  
  
# The organizational unit of the subject.  
unit = "sleeping dept."  
  
# The locality of the subject.  
# locality =  
  
# The state of the certificate owner.  
state = "Attiki"  
  
# The country of the subject. Two letter code.  
country = GR  
  
# The common name of the certificate owner.  
cn = "Cindy Lauper"  
  
# A user id of the certificate owner.  
#uid = "clauper"  
  
# If the supported DN OIDs are not adequate you can set  
# any OID here.  
# For example set the X.520 Title and the X.520 Pseudonym  
# by using OID and string pairs.  
#dn_oid = "2.5.4.12" "Dr." "2.5.4.65" "jackal"  
  
# This is deprecated and should not be used in new  
# certificates.  
# pkcs9_email = "none@@none.org"  
  
# The serial number of the certificate  
serial = 007  
  
# In how many days, counting from today, this certificate will expire.
```

```
expiration_days = 700

# X.509 v3 extensions

# A dnsname in case of a WWW server.
#dns_name = "www.none.org"
#dns_name = "www.morethanone.org"

# An IP address in case of a server.
#ip_address = "192.168.1.1"

# An email in case of a person
email = "none@@none.org"

# An URL that has CRLs (certificate revocation lists)
# available. Needed in CA certificates.
#crl_dist_points = "http://www.getcrl.crl/getcrl/"

# Whether this is a CA certificate or not
#ca

# Whether this certificate will be used for a TLS client
#tls_www_client

# Whether this certificate will be used for a TLS server
#tls_www_server

# Whether this certificate will be used to sign data (needed
# in TLS DHE ciphersuites).
signing_key

# Whether this certificate will be used to encrypt data (needed
# in TLS RSA ciphersuites). Note that it is preferred to use different
# keys for encryption and signing.
#encryption_key

# Whether this key will be used to sign other certificates.
#cert_signing_key

# Whether this key will be used to sign CRLs.
#crl_signing_key

# Whether this key will be used to sign code.
#code_signing_key

# Whether this key will be used to sign OCSP data.
#ocsp_signing_key
```

Whether this key will be used for time stamping.

#time_stamping_key

@end example

@node Invoking gnutls-cli

@section Invoking gnutls-cli

@cindex gnutls-cli

Simple client program to set up a TLS connection to some other computer. It sets up a TLS connection and forwards data from the standard input to the secured socket and vice versa.

@verbatim

GNU TLS test client

Usage: gnutls-cli [options] hostname

-d, --debug integer Enable debugging

-r, --resume Connect, establish a session. Connect again and resume this session.

-s, --starttls Connect, establish a plain session and start TLS when EOF or a SIGALRM is received.

--crlf Send CR LF instead of LF.

--x509fmtder Use DER format for certificates to read from.

-f, --fingerprint Send the openpgp fingerprint, instead of the key.

--disable-extensions Disable all the TLS extensions.

--print-cert Print the certificate in PEM format.

--recordsize integer The maximum record size to advertize.

-V, --verbose More verbose output.

--ciphers cipher1 cipher2...
Ciphers to enable.

--protocols protocol1 protocol2...
Protocols to enable.

--comp comp1 comp2... Compression methods to enable.

--macs mac1 mac2... MACs to enable.

--kx kx1 kx2... Key exchange methods to enable.

--ctypes certType1 certType2...
Certificate types to enable.

--priority PRIORITY STRING
Priorities string.

--x509cafile FILE Certificate file to use.

--x509crlfile FILE CRL file to use.

--pgpkeyfile FILE PGP Key file to use.

--pgpkeyring FILE PGP Key ring file to use.

--pgpcertfile FILE PGP Public Key (certificate) file to use.


```

--pgpsubkey HEX|auto    PGP subkey to use.
--x509keyfile FILE      X.509 key file to use.
--x509certfile FILE     X.509 Certificate file to use.
--srpusername NAME      SRP username to use.
--srppasswd PASSWD      SRP password to use.
--pskusername NAME      PSK username to use.
--pskkey KEY            PSK key (in hex) to use.
--opaque-prf-input DATA
                        Use Opaque PRF Input DATA.
-p, --port PORT         The port to connect to.
--insecure              Don't abort program if server
                        certificate can't be validated.
-l, --list              Print a list of the supported
                        algorithms and modes.
-h, --help              prints this help
-v, --version           prints the program's version number
@end verbatim

```

To connect to a server using PSK authentication, you may use something like:

```

@smallexample
$ gnutls-cli -p 5556 test.gnutls.org --pskusername jas --pskkey 9e32cf7786321a828ef7668f09fb35db --priority
NORMAL:+PSK:-RSA:-DHE-RSA -d 4711
@end smallexample

```

```

@menu
* Example client PSK connection::
@end menu

```

```

@node Example client PSK connection
@subsection Example client PSK connection
@cindex PSK client

```

If your server only supports the PSK ciphersuite, connecting to it should be as simple as connecting to the server:

```

@smallexample
$ ./gnutls-cli -p 5556 localhost
Resolving 'localhost'...
Connecting to '127.0.0.1:5556'...
- PSK client callback. PSK hint 'psk_identity_hint'
Enter PSK identity: psk_identity
Enter password:
- PSK authentication. PSK hint 'psk_identity_hint'
- Version: TLS1.1
- Key Exchange: PSK
- Cipher: AES-128-CBC

```

- MAC: SHA1
- Compression: NULL
- Handshake was completed

- Simple Client Mode:
@end smallexample

If the server supports several cipher suites, you may need to force it to chose PSK by using a cipher priority parameter such as
@code{--priority NORMAL:+PSK:-RSA:-DHE-RSA:-DHE-PSK}.

@cindex Netconf

Instead of using the Netconf-way to derive the PSK key from a password, you can also give the PSK username and key directly on the command line:

@smallexample

```
$/gnutls-cli -p 5556 localhost --pskusername psk_identity --pskey  
88f3824b3e5659f52d00e959bacab954b6540344
```

Resolving 'localhost'...

Connecting to '127.0.0.1:5556'...

- PSK authentication. PSK hint 'psk_identity_hint'

- Version: TLS1.1

- Key Exchange: PSK

- Cipher: AES-128-CBC

- MAC: SHA1

- Compression: NULL

- Handshake was completed

- Simple Client Mode:
@end smallexample

By keeping the @code{--pskusername} parameter and removing the @code{--pskey} parameter, it will query only for the password during the handshake.

@node Invoking gnutls-cli-debug

@section Invoking gnutls-cli-debug

@cindex gnutls-cli-debug

This program was created to assist in debugging @acronym{GnuTLS}, but it might be useful to extract a @acronym{TLS} server's capabilities.

It's purpose is to connect onto a @acronym{TLS} server, perform some tests and print the server's capabilities. If called with the '-v' parameter a more checks will be performed. An example output is:

@smallexample

```
crystal:cvs/gnutls/src$ ./gnutls-cli-debug localhost -p 5556
```

Resolving 'localhost'...
Connecting to '127.0.0.1:5556'...
Checking for TLS 1.1 support... yes
Checking fallback from TLS 1.1 to... N/A
Checking for TLS 1.0 support... yes
Checking for SSL 3.0 support... yes
Checking for version rollback bug in RSA PMS... no
Checking for version rollback bug in Client Hello... no
Checking whether we need to disable TLS 1.0... N/A
Checking whether the server ignores the RSA PMS version... no
Checking whether the server can accept Hello Extensions... yes
Checking whether the server can accept cipher suites not in SSL 3.0 spec... yes
Checking whether the server can accept a bogus TLS record version in the client hello... yes
Checking for certificate information... N/A
Checking for trusted CAs... N/A
Checking whether the server understands TLS closure alerts... yes
Checking whether the server supports session resumption... yes
Checking for export-grade ciphersuite support... no
Checking RSA-export ciphersuite info... N/A
Checking for anonymous authentication support... no
Checking anonymous Diffie-Hellman group info... N/A
Checking for ephemeral Diffie-Hellman support... no
Checking ephemeral Diffie-Hellman group info... N/A
Checking for AES cipher support (TLS extension)... yes
Checking for 3DES cipher support... yes
Checking for ARCFOUR 128 cipher support... yes
Checking for ARCFOUR 40 cipher support... no
Checking for MD5 MAC support... yes
Checking for SHA1 MAC support... yes
Checking for ZLIB compression support (TLS extension)... yes
Checking for LZO compression support (GnuTLS extension)... yes
Checking for max record size (TLS extension)... yes
Checking for SRP authentication support (TLS extension)... yes
Checking for OpenPGP authentication support (TLS extension)... no
@end smallexample

@node Invoking gnutls-serv
@section Invoking gnutls-serv
@cindex gnutls-serv

Simple server program that listens to incoming TLS connections.

@verbatim
GNU TLS test server
Usage: gnutls-serv [options]

-d, --debug integer Enable debugging
-g, --generate Generate Diffie-Hellman Parameters.

-p, --port integer The port to connect to.
 -q, --quiet Suppress some messages.
 --nodb Does not use the resume database.
 --http Act as an HTTP Server.
 --echo Act as an Echo Server.
 --dhparams FILE DH params file to use.
 --x509fmtder Use DER format for certificates
 --x509cafile FILE Certificate file to use.
 --x509crlfile FILE CRL file to use.
 --pgpkeyring FILE PGP Key ring file to use.
 --pgpkeyfile FILE PGP Key file to use.
 --pgpcertfile FILE PGP Public Key (certificate) file to
 use.
 --pgpsubkey HEX|auto PGP subkey to use.
 --x509keyfile FILE X.509 key file to use.
 --x509certfile FILE X.509 Certificate file to use.
 --x509dsafile FILE Alternative X.509 key file to use.
 --x509dsacertfile FILE Alternative X.509 certificate file to
 use.
 -r, --require-cert Require a valid certificate.
 -a, --disable-client-cert
 Disable request for a client
 certificate.
 --pskpasswd FILE PSK password file to use.
 --pskhint HINT PSK identity hint to use.
 --srpasswd FILE SRP password file to use.
 --srpasswdconf FILE SRP password conf file to use.
 --opaque-prf-input DATA
 Use Opaque PRF Input DATA.
 --ciphers cipher1 cipher2...
 Ciphers to enable.
 --protocols protocol1 protocol2...
 Protocols to enable.
 --comp comp1 comp2... Compression methods to enable.
 --macs mac1 mac2... MACs to enable.
 --kx kx1 kx2... Key exchange methods to enable.
 --ctypes certType1 certType2...
 Certificate types to enable.
 --priority PRIORITY STRING
 Priorities string.
 -l, --list Print a list of the supported
 algorithms and modes.
 -h, --help prints this help
 -v, --version prints the program's version number
 @end verbatim

@subsection Setting Up a Test HTTPS Server

@cindex HTTPS server

```
@cindex debug server
```

Running your own TLS server based on GnuTLS can be useful when debugging clients and/or GnuTLS itself. This section describes how to use `gnutls-serv` as a simple HTTPS server.

The most basic server can be started as:

```
@example
gnutls-serv --http
@end example
```

It will only support anonymous ciphersuites, which many TLS clients refuse to use.

The next step is to add support for X.509. First we generate a CA:

```
@example
certtool --generate-privkey > x509-ca-key.pem
echo 'cn = GnuTLS test CA' > ca.tmpl
echo 'ca' >> ca.tmpl
echo 'cert_signing_key' >> ca.tmpl
certtool --generate-self-signed --load-privkey x509-ca-key.pem \
--template ca.tmpl --outfile x509-ca.pem
...
@end example
```

Then generate a server certificate. Remember to change the `dns_name` value to the name of your server host, or skip that command to avoid the field.

```
@example
certtool --generate-privkey > x509-server-key.pem
echo 'organization = GnuTLS test server' > server.tmpl
echo 'cn = test.gnutls.org' >> server.tmpl
echo 'tls_www_server' >> server.tmpl
echo 'encryption_key' >> server.tmpl
echo 'signing_key' >> server.tmpl
echo 'dns_name = test.gnutls.org' >> server.tmpl
certtool --generate-certificate --load-privkey x509-server-key.pem \
--load-ca-certificate x509-ca.pem --load-ca-privkey x509-ca-key.pem \
--template server.tmpl --outfile x509-server.pem
...
@end example
```

For use in the client, you may want to generate a client certificate as well.

```
@example
certtool --generate-privkey > x509-client-key.pem
echo 'cn = GnuTLS test client' > client.tmpl
echo 'tls_www_client' >> client.tmpl
echo 'encryption_key' >> client.tmpl
echo 'signing_key' >> client.tmpl
certtool --generate-certificate --load-privkey x509-client-key.pem \
--load-ca-certificate x509-ca.pem --load-ca-privkey x509-ca-key.pem \
--template client.tmpl --outfile x509-client.pem
...
@end example
```

To be able to import the client key/certificate into some applications, you will need to convert them into a PKCS#12 structure. This also encrypts the security sensitive key with a password.

```
@example
certtool --to-p12 --load-privkey x509-client-key.pem --load-certificate x509-client.pem --outder --outfile x509-client.p12
@end example
```

For icing, we'll create a proxy certificate for the client too.

```
@example
certtool --generate-privkey > x509-proxy-key.pem
echo 'cn = GnuTLS test client proxy' > proxy.tmpl
certtool --generate-proxy --load-privkey x509-proxy-key.pem \
--load-ca-certificate x509-client.pem --load-ca-privkey x509-client-key.pem \
--load-certificate x509-client.pem --template proxy.tmpl \
--outfile x509-proxy.pem
...
@end example
```

Then start the server again:

```
@example
gnutls-serv --http \
--x509cafile x509-ca.pem \
--x509keyfile x509-server-key.pem \
--x509certfile x509-server.pem
@end example
```

Try connecting to the server using your web browser. Note that the server listens to port 5556 by default.

While you are at it, to allow connections using DSA, you can also create a DSA key and certificate for the server. These credentials will be used in the final example below.

```
@example
certtool --generate-privkey --dsa > x509-server-key-dsa.pem
certtool --generate-certificate --load-privkey x509-server-key-dsa.pem \
--load-ca-certificate x509-ca.pem --load-ca-privkey x509-ca-key.pem \
--template server.tmpl --outfile x509-server-dsa.pem
...
@end example
```

The next step is to create OpenPGP credentials for the server.

```
@example
gpg --gen-key
...enter whatever details you want, use 'test.gnutls.org' as name...
@end example
```

Make a note of the OpenPGP key identifier of the newly generated key, here it was `{5D1D14D8}`. You will need to export the key for GnuTLS to be able to use it.

```
@example
gpg -a --export 5D1D14D8 > openpgp-server.txt
gpg --export 5D1D14D8 > openpgp-server.bin
gpg --export-secret-keys 5D1D14D8 > openpgp-server-key.bin
gpg -a --export-secret-keys 5D1D14D8 > openpgp-server-key.txt
@end example
```

Let's start the server with support for OpenPGP credentials:

```
@example
gnutls-serv --http \
--pgpkeyfile openpgp-server-key.txt \
--pgpcertfile openpgp-server.txt
@end example
```

The next step is to add support for SRP authentication.

```
@example
srptool --create-conf srp-tpasswd.conf
srptool --passwd-conf srp-tpasswd.conf --username jas --passwd srp-passwd.txt
Enter password: [TYPE "foo"]
@end example
```

Start the server with SRP support:

```
@example
gnutls-serv --http \
--srpasswdconf srp-tpasswd.conf \
```

```
--srppasswd srp-passwd.txt
@end example
```

Let's also add support for PSK.

```
@example
$ psktool --passwd psk-passwd.txt
@end example
```

Start the server with PSK support:

```
@example
gnutls-serv --http \
  --pskpasswd psk-passwd.txt
@end example
```

Finally, we start the server with all the earlier parameters and you get this command:

```
@example
gnutls-serv --http \
  --x509cafile x509-ca.pem \
  --x509keyfile x509-server-key.pem \
  --x509certfile x509-server.pem \
  --x509dsafile x509-server-key-dsa.pem \
  --x509dsacertfile x509-server-dsa.pem \
  --pgpkeyfile openpgp-server-key.txt \
  --pgpcertfile openpgp-server.txt \
  --srppasswdconf srp-tpasswd.conf \
  --srppasswd srp-passwd.txt \
  --pskpasswd psk-passwd.txt
@end example
```

```
@menu
* Example server PSK connection::
@end menu
```

```
@node Example server PSK connection
@subsection Example server PSK connection
@cindex PSK server
```

To set up a PSK server with `gnutls-serv` you need to create PSK password file (`psktool`). In the example below, I type `password` at the prompt.

```
@smallexample
$ ./psktool -u psk_identity -p psks.txt -n psk_identity_hint
Enter password:
```



```
Key stored to psks.txt
$ cat psks.txt
psk_identity:88f3824b3e5659f52d00e959bacab954b6540344
$
@end smallexample
```

After this, start the server pointing to the password file. We disable DHE-PSK.

```
@smallexample
$ ./gnutls-serv --pskpasswd psks.txt --pskhint psk_identity_hint --priority NORMAL:-DHE-PSK
Set static Diffie-Hellman parameters, consider --dhparams.
Echo Server ready. Listening to port '5556'.
@end smallexample
```

You can now connect to the server using a PSK client (@pxref{Example client PSK connection}).

```
@node Invoking psktool
@section Invoking psktool
@cindex psktool
```

This is a program to manage @acronym{PSK} username and keys.

```
@verbatim
PSKtool help
Usage : psktool [options]
  -u, --username username
           specify username.
  -p, --passwd FILE    specify a password file.
  -n, --netconf-hint HINT
           derive key from Netconf password, using
           HINT as the psk_identity_hint.
  -s, --keysize SIZE  specify the key size in bytes.
  -v, --version        prints the program's version number
  -h, --help          shows this help text
@end verbatim
```

Normally the file will generate random keys for the indicate username. You may also derive PSK keys from passwords, using the algorithm specified in @file{draft-ietf-netconf-tls-02.txt}. The algorithm needs a PSK identity hint, which you specify using @code{--netconf-hint}. To derive a PSK key from a password with an empty PSK identity hint, using @code{--netconf-hint ""}.

```
@node Invoking srptool
@section Invoking srptool
@anchor{srptool}
```

@cindex srptool

The @file{srptool} is a very simple program that emulates the programs in the @emph{Stanford SRP libraries}, see @url{http://srp.stanford.edu/}. It is intended for use in places where you don't expect @acronym{SRP} authentication to be the used for system users.

Traditionally @emph{libsrp} used two files. One called @code{tpasswd} which holds usernames and verifiers, and @code{tpasswd.conf} which holds generators and primes.

How to use srptool:

@itemize

@item

To create tpasswd.conf which holds the g and n values for @acronym{SRP} protocol (generator and a large prime), run:

@example

```
$ srptool --create-conf /etc/tpasswd.conf
```

@end example

@item

This command will create /etc/tpasswd and will add user 'test' (you will also be prompted for a password). Verifiers are stored by default in the way libsrp expects.

@example

```
$ srptool --passwd /etc/tpasswd \  
--passwd-conf /etc/tpasswd.conf -u test
```

@end example

@item

This command will check against a password. If the password matches the one in /etc/tpasswd you will get an ok.

@example

```
$ srptool --passwd /etc/tpasswd \  
--passwd-conf /etc/tpasswd.conf --verify -u test
```

@end example

@end itemize

@node Function reference

@chapter Function Reference

@cindex Function reference

@menu
* Core functions::
* X.509 certificate functions::
* GnuTLS-extra functions::
* OpenPGP functions::
* TLS Inner Application (TLS/IA) functions::
* Error codes and descriptions::
@end menu

@node Core functions
@section Core Functions

The prototypes for the following functions lie in
@file{gnutls/gnutls.h}.

@include gnutls-api.texi

@node X.509 certificate functions
@section @acronym{X.509} Certificate Functions
@anchor{sec:x509api}
@cindex @acronym{X.509} Functions

The following functions are to be used for @acronym{X.509} certificate handling.
Their prototypes lie in @file{gnutls/x509.h}.

@include x509-api.texi

@node GnuTLS-extra functions
@section @acronym{GnuTLS-extra} Functions
@cindex @acronym{GnuTLS-extra} functions

These functions are only available in the GPLv3+ version of the
library called @code{gnutls-extra}. The prototypes for this library
lie in @file{gnutls/extra.h}.

@include gnutls-extra-api.texi

@node OpenPGP functions
@section @acronym{OpenPGP} Functions
@cindex @acronym{OpenPGP} functions
@anchor{sec:openpgpapi}

The following functions are to be used for @acronym{OpenPGP}
certificate handling. Their prototypes lie in
@file{gnutls/openpgp.h}.

@include pgp-api.texi

@node TLS Inner Application (TLS/IA) functions
@section @acronym{TLS} Inner Application (@acronym{TLS/IA}) Functions
@index @acronym{TLS} Inner Application (@acronym{TLS/IA}) functions
@index Inner Application (@acronym{TLS/IA}) functions

The following functions are used for @acronym{TLS} Inner Application (@acronym{TLS/IA}). Their prototypes lie in @file{gnutls/extra.h}. You need to link with @file{libgnutls-extra} to be able to use these functions (@pxref{GnuTLS-extra functions}).

The typical control flow in an TLS/IA client (that would not require an Application Phase for resumed sessions) would be similar to the following:

```
@example
int client_avp (gnutls_session_t *session, void *ptr,
               const char *last, size_t lastlen,
               char **new, size_t *newlen)
@{
...
@}
...
int main ()
@{
  gnutls_ia_client_credentials_t iacred;
  ...
  gnutls_init (&session, GNUTLS_CLIENT);
  ...
  /* Enable TLS/IA. */
  gnutls_ia_allocate_client_credentials(&iacred);
  gnutls_ia_set_client_avp_function(iacred, client_avp);
  gnutls_credentials_set (session, GNUTLS_CRD_IA, iacred);
  ...
  ret = gnutls_handshake (session);
  // Error handling...
  ...
  if (gnutls_ia_handshake_p (session))
    @{
      ret = gnutls_ia_handshake (session);
      // Error handling...
    ...
@end example
```

See below for detailed descriptions of all the functions used above.

The function @code{client_avp} would have to be implemented by your application. The function is responsible for handling the AVP data.

See `gnutls_ia_set_client_avp_function` below for more information on how that function should be implemented.

The control flow in a typical server is similar to the above, use `gnutls_ia_server_credentials_t` instead of `gnutls_ia_client_credentials_t`, and replace the call to the client functions with the corresponding server functions.

```
@include ia-api.texi
```

```
@node Error codes and descriptions
@section Error Codes and Descriptions
@anchor{Error Codes}
@cindex Error codes
```

The error codes used throughout the library are described below. The return code `GNUTLS_E_SUCCESS` indicate successful operation, and is guaranteed to have the value 0, so you can use it in logical expressions.

```
@include error_codes.texi
```

```
@node All the supported ciphersuites in GnuTLS
@chapter All the Supported Ciphersuites in @acronym{GnuTLS}
@anchor{ciphersuites}
@cindex Ciphersuites
```

```
@include algorithms.texi
```

Some additional information regarding some of the algorithms:

```
@table @code
```

```
@item RSA
```

RSA is public key cryptosystem designed by Ronald Rivest, Adi Shamir and Leonard Adleman. It can be used with any hash functions.

```
@item DSA
```

DSA is the USA's Digital Signature Standard. It uses only the SHA-1 hash algorithm.

```
@item MD2
```

MD2 is a cryptographic hash algorithm designed by Ron Rivest. It is optimized for 8-bit processors. Outputs 128 bits of data. There are no known weaknesses of this algorithm but since this algorithm is rarely used and not really studied it should not be used today.

```
@item MD5
```

MD5 is a cryptographic hash algorithm designed by Ron Rivest. Outputs

128 bits of data. It is considered to be broken.

@item SHA-1

SHA is a cryptographic hash algorithm designed by NSA. Outputs 160 bits of data. It is also considered to be broken, though no practical attacks have been found.

@item RMD160

RIPEDM is a cryptographic hash algorithm developed in the framework of the EU project RIPE. Outputs 160 bits of data.

@end table

@c

@c Guile Bindings

@c

@include guile.texi

@node Internal architecture of GnuTLS

@chapter Internal Architecture of GnuTLS

@cindex Internal architecture

This chapter is to give a brief description of the way @acronym{GnuTLS} works. The focus is to give an idea to potential developers and those who want to know what happens inside the black box.

@menu

- * The TLS Protocol::
- * TLS Handshake Protocol::
- * TLS Authentication Methods::
- * TLS Extension Handling::
- * Cryptographic Backend::

@end menu

@node The TLS Protocol

@section The TLS Protocol

The main needs for the TLS protocol to be used are shown in the image below.

@image{gnutls-client-server-use-case,9cm}

This is being accomplished by the following object diagram. Note that since @acronym{GnuTLS} is being developed in C object are just structures with attributes. The operations listed are functions that require the first parameter to be that object.

@image{gnutls-objects,15cm}

@node TLS Handshake Protocol

@section TLS Handshake Protocol

The @acronym{GnuTLS} handshake protocol is implemented as a state machine that waits for input or returns immediately when the non-blocking transport layer functions are used. The main idea is shown in the following figure.

@image{gnutls-handshake-state,9cm}

Also the way the input is processed varies per ciphersuite. Several implementations of the internal handlers are available and @ref{gnutls_handshake} only multiplexes the input to the appropriate handler. For example a @acronym{PSK} ciphersuite has a different implementation of the @code{process_client_key_exchange} than a certificate ciphersuite.

@image{gnutls-handshake-sequence,12cm}

@node TLS Authentication Methods

@section TLS Authentication Methods

In @acronym{GnuTLS} authentication methods can be implemented quite easily. Since the required changes to add a new authentication method affect only the handshake protocol, a simple interface is used. An authentication method needs only to implement the functions as seen in the figure below.

@image{gnutls-mod_auth_st,12cm}

The functions that need to be implemented are the ones responsible for interpreting the handshake protocol messages. It is common for such functions to read data from one or more @code{credentials_t} structures@footnote{such as the @code{gnutls_certificate_credentials_t} structures} and write data, such as certificates, usernames etc. to @code{auth_info_t} structures.

Simple examples of existing authentication methods can be seen in @code{auth_psk.c} for PSK ciphersuites and @code{auth_srp.c} for SRP ciphersuites. After implementing these functions the structure holding its pointers has to be registered in @code{gnutls_algorithms.c} in the @code{_gnutls_kx_algorithms} structure.

@node TLS Extension Handling

@section TLS Extension Handling

As with authentication methods, the TLS extensions handlers can be implemented using the following interface.

@image{gnutls-extensions_st,12cm}

Here there are two functions, one for receiving the extension data and one for sending. These functions have to check internally whether

they operate in client or server side.

A simple example of an extension handler can be seen in `ext_srp.c`. After implementing these functions, together with the extension number they handle, they have to be registered in `gnutls_extensions.c` in the `_gnutls_extensions` structure.

Adding a New TLS Extension

Adding support for a new TLS extension is done from time to time, and the process to do so is not difficult. Here are the steps you need to follow if you wish to do this yourself. For sake of discussion, let's consider adding support for the hypothetical TLS extension `foobar`.

Enumerate

Modify `configure.in` to add `--enable-foobar` or `--disable-foobar`.

Which to choose depends on whether you intend to make the extension be enabled by default. Look at existing checks (i.e., SRP, authz) for how to model the code. For example:

```
@example
AC_MSG_CHECKING([whether to disable foobar support])
AC_ARG_ENABLE(foobar,
  AS_HELP_STRING([--disable-foobar],
    [disable foobar support]),
  ac_enable_foobar=no)
if test x$ac_enable_foobar != xno; then
  AC_MSG_RESULT(no)
  AC_DEFINE(ENABLE_FOOBAR, 1, [enable foobar])
else
  ac_full=0
  AC_MSG_RESULT(yes)
fi
AM_CONDITIONAL(ENABLE_FOOBAR, test "$ac_enable_foobar" != "no")
@end example
```

Add IANA extension value to `extensions_t` in `gnutls_int.h`.

A good name for the value would be `GNUTLS_EXTENSION_FOOBAR`. Check with <http://www.iana.org/assignments/tls-extensiontype-values> for allocated values. For experiments, you could pick a number but remember that some consider it a bad idea to deploy such modified version since it will lead to interoperability problems in the future when the IANA allocates that number to someone else, or when the foobar protocol is allocated another number.

@item Add an entry to @code{ _gnutls_extensions } in @code{gnutls_extensions.c}.

A typical entry would be:

```
@example
#if ENABLE_FOOBAR
GNUTLS_EXTENSION_ENTRY (GNUTLS_EXTENSION_FOOBAR,
    _gnutls_foobar_recv_params,
    _gnutls_foobar_send_params),
#endif
@end example
```

The GNUTLS_EXTENSION_FOOBAR is the integer value you added to @code{gnutls_int.h} earlier. The two functions are new functions that you will need to implement, most likely you'll need to add an @code{#include "ext_foobar.h"} as well.

@item Add new files @code{ext_foobar.c} and @code{ext_foobar.h} that implements the extension.

The functions you are responsible to add are those mentioned in the previous step. As a starter, you could add this:

```
@example
int
_gnutls_foobar_recv_params (gnutls_session_t session,
    const opaque * data,
    size_t data_size)
@{
    return 0;
@}

int
_gnutls_foobar_send_params (gnutls_session_t session,
    opaque * data,
    size_t _data_size)
@{
    return 0;
@}
@end example
```

The @code{ _gnutls_foobar_recv_params } function is responsible for parsing incoming extension data (both in the client and server).

The @code{ _gnutls_foobar_send_params } function is responsible for sending extension data (both in the client and server).

If you receive length fields that doesn't match, return

`GNUTLS_E_UNEXPECTED_PACKET_LENGTH`. If you receive invalid data, return `GNUTLS_E_RECEIVED_ILLEGAL_PARAMETER`. You can use other error codes too. Return 0 on success.

The function typically store some information in the `session` variable for later usage. If you need to add new fields there, check `tls_ext_st` in `gnutls_int.h` and compare with existing TLS extension specific variables.

Recall that both the client and server both send and receives parameters, and your code most likely will need to do different things depending on which mode it is in. It may be useful to make this distinction explicit in the code. Thus, for example, a better template than above would be:

```
@example
int
_gnutls_foobar_rcv_params (gnutls_session_t session,
                          const opaque * data,
                          size_t data_size)
@{
  if (session->security_parameters.entity == GNUTLS_CLIENT)
    return foobar_rcv_client (session, data, data_size);
  else
    return foobar_rcv_server (session, data, data_size);
@}

int
_gnutls_foobar_send_params (gnutls_session_t session,
                           opaque * data,
                           size_t data_size)
@{
  if (session->security_parameters.entity == GNUTLS_CLIENT)
    return foobar_send_client (session, data, data_size);
  else
    return foobar_send_server (session, data, data_size);
@}
@end example
```

The functions used would be declared as `static` functions, of the appropriate prototype, in the same file.

When adding the files, you'll need to add them to `Makefile.am` as well, for example:

```
@example
if ENABLE_FOOBAR
  OBJECTS += ext_foobar.c
```

```
HFILES += ext_foobar.h
```

```
endif
```

```
@end example
```

@item Add API functions to enable/disable the extension.

Normally the client will have one API to request use of the extension, and setting some extension specific data. The server will have one API to let the library know that it is willing to accept the extension, often this is implemented through a callback but it doesn't have to.

The APIs need to be added to `includes/gnutls/gnutls.h` or `includes/gnutls/extra.h` as appropriate. It is recommended that if you don't have a requirement to use the LGPLv2.1+ license for your extension, that you place your work under the GPLv3+ license and thus in the libgnutls-extra library.

You can implement the API function in the `ext_foobar.c` file, or if that file ends up becoming rather larger, add a `gnutls_foobar.c` file.

```
@end enumerate
```

```
@section Certificate Handling
```

What is provided by the certificate handling functions is summarized in the following diagram.

```
@image{gnutls-certificate-user-use-case,12cm}
```

```
@node Cryptographic Backend
```

```
@section Cryptographic Backend
```

Several new systems provide hardware assisted cryptographic algorithm implementations that offer implementations some orders of magnitude faster than the software. For this reason in current releases of GnuTLS it is possible to override parts of the crypto backend or the whole. It is possible to override them both at runtime and compile time, however here we will discuss the runtime possibility. The API available for this functionality is in `gnutls/crypto.h` header file.

```
@subsection Override specific algorithms
```

When an optimized implementation of a single algorithm is available, say a hardware assisted version of `AES-CBC` then the following functions can be used to register those algorithms.

```
@itemize
```

```
@item @ref{gnutls_crypto_single_cipher_register2}
```

To register a cipher algorithm.

@item @ref{gnutls_crypto_single_mac_register2}

To register a MAC algorithm.

@ref{gnutls_crypto_single_digest_register2}

To register a digest (hash) algorithm.

@end itemize

Those registration functions will only replace the specified algorithm and leave the rest of subsystem intact.

@subsection Override parts of the backend

In some systems, such as embedded ones, it might be desirable to override big parts of the cryptographic backend, or even all of them. For this reason the following functions are provided.

@itemize

@item @ref{gnutls_crypto_cipher_register2}

To override the cryptographic algorithms backend.

@item @ref{gnutls_crypto_mac_register2}

To override the MAC algorithms backend.

@item @ref{gnutls_crypto_digest_register2}

To override the digest algorithms backend.

@item @ref{gnutls_crypto_rnd_register2}

To override the random number generator backend.

@item @ref{gnutls_crypto_bigint_register2}

To override the big number number operations backend.

@item @ref{gnutls_crypto_pk_register2}

To override the public key encryption backend. This is tight to the big number operations so either both of them should be updated or care must be taken to use the same format.

@end itemize

If all of them are used then GnuTLS will no longer use libgcrypt.

@node Copying Information

@appendix Copying Information

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* GNU Free Documentation License:: License for copying this manual.

* GNU LGPL:: License for copying the core GnuTLS library.

* GNU GPL:: License for copying GNUTLS extra and tools.

@end menu

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@appendixsec GNU Free Documentation License

@cindex FDL, GNU Free Documentation License

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@node GNU LGPL

@appendixsec GNU Lesser General Public License

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@bye

This is gnutls.info, produced by makeinfo version 4.13 from gnutls.texi.

This manual is last updated 2 June 2009 for version 2.8.5 of GNU TLS.

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* gnutls-cli: (gnutls)Invoking gnutls-cli. GNU TLS test client.
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* GnuTLS: (gnutls). GNU Transport Layer Security Library.

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* gnutls-cli-debug: (gnutls)Invoking gnutls-cli-debug. GNU TLS debug client.

* psktool: (gnutls)Invoking psktool. Simple TLS-Pre-Shared-Keys manager.

* srptool: (gnutls)Invoking srptool. Simple SRP password tool.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does `_Less_` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or

translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Version 3, 29 June 2007

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Preamble

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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- * Exporting Keying Material: Keying Material Exporters.
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- * FDL, GNU Free Documentation License: GNU Free Documentation License.

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- * LGPL, GNU Lesser General Public License: GNU LGPL. (line 6)
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(line 9)
- * X.509 Functions: X.509 certificate functions.
(line 6)

Having a separate GNUmakefile lets me `include' the dynamically
generated rules created via cfg.mk (package-local configuration)
as well as maint.mk (generic maintainer rules).
This makefile is used only if you run GNU Make.
It is necessary if you want to build targets usually of interest
only to the maintainer.

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# Systems where /bin/sh is not the default shell need this. The $(shell)
# command below won't work with e.g. stock DOS/Windows shells.
ifeq ($(wildcard /bin/s[h]),/bin/sh)
SHELL = /bin/sh
else
# will be used only with the next shell-test line, then overwritten
# by a configured-in value
SHELL = sh
endif

# If the user runs GNU make but has not yet run ./configure,
# give them a diagnostic.
_have-Makefile := $(shell test -f Makefile && echo yes)
ifeq ($_have-Makefile),yes)

# Make tar archive easier to reproduce.
export TAR_OPTIONS = --owner=0 --group=0 --numeric-owner

# Allow the user to add to this in the Makefile.
ALL_RECURSIVE_TARGETS =

include Makefile

# Some projects override e.g., _autoreconf here.
-include $(srcdir)/cfg.mk
include $(srcdir)/maint.mk

# Allow cfg.mk to override these.
_build-aux ?= build-aux
_autoreconf ?= autoreconf

# Ensure that $(VERSION) is up to date for dist-related targets, but not
# for others: rerunning autoreconf and recompiling everything isn't cheap.
_have-git-version-gen := \
$(shell test -f $(srcdir)/$_build-aux/git-version-gen && echo yes)
ifeq ($_have-git-version-gen)0,yes$(MAKELEVEL))
_is-dist-target ?= $(filter-out %clean, \
$(filter maintainer-% dist% alpha beta major,$(MAKECMDGOALS)))

```

```

_is-install-target ?= $(filter-out %check, $(filter install%, $(MAKECMDGOALS)))
ifneq (,$(_is-dist-target))$(_is-install-target)
  _curr-ver := $(shell cd $(srcdir) \
    && $(build-aux)/git-version-gen .tarball-version)
ifneq ($(_curr-ver), $(VERSION))
ifeq ($(_curr-ver), UNKNOWN)
  $(info WARNING: unable to verify if $(VERSION) is the correct version)
else
ifeq (,$(_is-install-target))
  # GNU Coding Standards state that 'make install' should not cause
  # recompilation after 'make all'. But as long as changing the version
  # string alters config.h, the cost of having 'make all' always have an
  # up-to-date version is prohibitive. So, as a compromise, we merely
  # warn when installing a version string that is out of date; the user
  # should run 'autoreconf' (or something like 'make distcheck') to
  # fix the version, 'make all' to propagate it, then 'make install'.
  $(info WARNING: version string $(VERSION) is out of date;)
  $(info run '$(MAKE) _version' to fix it)
else
  $(info INFO: running autoreconf for new version string: $_curr-ver)
  _dummy := $(shell $(MAKE) $(AM_MAKEFLAGS) _version)
endif
endif
endif
endif

.PHONY: _version
_version:
cd $(srcdir) && rm -rf autom4te.cache .version && $(autoreconf)

else

.DEFAULT_GOAL := abort-due-to-no-makefile
srcdir = .

# The package can override .DEFAULT_GOAL to run actions like autoreconf.
-include ./cfg.mk
include ./maint.mk

ifeq ($(.DEFAULT_GOAL), abort-due-to-no-makefile)
$(MAKECMDGOALS): abort-due-to-no-makefile
endif

abort-due-to-no-makefile:
@echo There seems to be no Makefile in this directory. 1>&2
@echo "You must run ./configure before running `make`." 1>&2
@exit 1

```



```
endif

# Tell version 3.79 and up of GNU make to not build goals in this
# directory in parallel, in case someone tries to build multiple
# targets, and one of them can cause a recursive target to be invoked.

# Only set this if Automake doesn't provide it.
AM_RECURSIVE_TARGETS ?= $(RECURSIVE_TARGETS:-recursive=) \
$(RECURSIVE_CLEAN_TARGETS:-recursive=) \
dist distcheck tags ctags

ALL_RECURSIVE_TARGETS += $(AM_RECURSIVE_TARGETS)

ifneq ($(word 2, $(MAKECMDGOALS)), )
ifneq ($(filter $(ALL_RECURSIVE_TARGETS), $(MAKECMDGOALS)), )
.NOTPARALLEL:
endif
endif
```

1.14 iniparser 2.17

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1.15 iproute2 2.6.29

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Version 2, June 1991

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```

```
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.17 libcrypt 1.4.5

1.17.1 Available under license :

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.18 libcrypt_library 1.4.5

1.18.1 Available under license :

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.19 libgpg-error 1.7

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1.20 libgpg-error_library 1.7

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```

Motorolla 68020 20mhz, NetBSD

SSLLeay 0.9.0t 29-May-1998

built on Fri Jun 5 12:42:23 EST 1998

options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)

C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN

The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	2176.00	5994.67	8079.73	8845.18	9077.01
mdc2	5730.67	6122.67	6167.66	6176.51	6174.87
md5	29.10k	127.31k	209.66k	250.50k	263.99k
hmac(md5)	12.33k	73.02k	160.17k	228.04k	261.15k
sha1	11.27k	49.37k	84.31k	102.40k	109.23k
rmd160	11.69k	48.62k	78.76k	93.15k	98.41k
rc4	117.96k	148.94k	152.57k	153.09k	152.92k
des cbc	27.13k	30.06k	30.38k	30.38k	30.53k
des ede3	10.51k	10.94k	11.01k	11.01k	11.01k
idea cbc	26.74k	29.23k	29.45k	29.60k	29.74k
rc2 cbc	34.27k	39.39k	40.03k	40.07k	40.16k
rc5-32/12 cbc	64.31k	83.18k	85.70k	86.70k	87.09k
blowfish cbc	48.86k	59.18k	60.07k	60.42k	60.78k
cast cbc	42.67k	50.01k	50.86k	51.20k	51.37k
	sign	verify	sign/s	verify/s	
rsa 512 bits	0.7738s	0.0774s	1.3	12.9	
rsa 1024 bits	4.3967s	0.2615s	0.2	3.8	
rsa 2048 bits	29.5200s	0.9664s	0.0	1.0	
	sign	verify	sign/s	verify/s	

```
dsa 512 bits 0.7862s 0.9709s 1.3 1.0
dsa 1024 bits 2.5375s 3.1625s 0.4 0.3
dsa 2048 bits 9.2150s 11.8200s 0.1 0.1
Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2
```

SSLey 0.7.0 30-Jan-1997

built on Tue Apr 22 12:14:36 EST 1997

options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)

C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall

The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	130.99k	367.68k	499.09k	547.04k	566.50k
md5	1924.98k	8293.50k	13464.41k	16010.39k	16820.68k
sha	1250.75k	5330.43k	8636.88k	10227.36k	10779.14k
sha1	1071.55k	4572.50k	7459.98k	8791.96k	9341.61k
rc4	10724.22k	14546.25k	15240.18k	15259.50k	15265.63k
des cbc	3309.11k	3883.01k	3968.25k	3971.86k	3979.14k
des ede3	1442.98k	1548.33k	1562.48k	1562.00k	1563.33k
idea cbc	2195.69k	2506.39k	2529.59k	2545.66k	2546.54k
rc2 cbc	806.00k	833.52k	837.58k	838.52k	836.69k
blowfish cbc	4687.34k	5949.97k	6182.43k	6248.11k	6226.09k
rsa 512 bits	0.010s				
rsa 1024 bits	0.045s				
rsa 2048 bits	0.260s				
rsa 4096 bits	1.690s				

1.27 popt 1.10.4

1.27.1 Available under license :

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/* Implementation of the dcgettext(3) function.

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1.28 rtsp-linux-v2.6 2.6.26

1.28.1 Available under license :

/*

* RTSP extension for IP connection tracking

* (C) 2003 by Tom Marshall <tmarshall at real.com>

* based on ip_contrack_irc.c

*

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1.29 SHA-1 ARM NA

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 *
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1.30 shttpd 1.36

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1.32 zlib 1.2.3

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

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