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* httpd@ncsa.uiuc.edu
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```

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For the srclib\apr-util\xml\expat\confutils\install-sh component:

#

install - install a program, script, or datafile

```
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```
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```

For the pcre component:

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Written by: Philip Hazel <ph10@cam.ac.uk>

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For the test\zb.c component:

```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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*/

package org.apache.commons.codec;

/**

* Defines common decoding methods for byte array decoders.

*

* @author Apache Software Foundation

* @version \$Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp \$

*/

public interface BinaryDecoder extends Decoder {

```

/**
 * Decodes a byte array and returns the results as a byte array.
 *
 * @param pArray A byte array which has been encoded with the
 *   appropriate encoder
 *
 * @return a byte array that contains decoded content
 *
 * @throws DecoderException A decoder exception is thrown
 *   if a Decoder encounters a failure condition during
 *   the decode process.
 */
byte[] decode(byte[] pArray) throws DecoderException;
}

```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

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1.17 avahi-libs 0.6.25 :12.e16

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1.18 axis 1.4

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From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@inet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

From specdt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: specdt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specdt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from specdt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <specdt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~specdt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} "The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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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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entire whole, and thus to each and every part regardless of who wrote it.

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c) 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.

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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 source code 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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```
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```

```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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1.42 coreutils 8.4 :19.el6

1.42.1 Available under license :

```
diff -urNp coreutils-8.4/lib/acl-internal.h coreutils-8.4-orig/lib/acl-internal.h
--- coreutils-8.4/lib/acl-internal.h 2010-01-04 17:19:05.000000000 +0100
+++ coreutils-8.4-orig/lib/acl-internal.h 2011-10-04 15:47:02.195436033 +0200
@@ -112,6 +112,12 @@ rpl_acl_set_fd (int fd, acl_t acl)
# endif

/* Linux-specific */
+# ifndef HAVE_ACL_EXTENDED_FILE_NOFOLLOW
+# define HAVE_ACL_EXTENDED_FILE_NOFOLLOW false
+# define acl_extended_file_nofollow(name) (-1)
+# endif
```

```

+
+/* Linux-specific */
# ifndef HAVE_ACL_FROM_MODE
#  define HAVE_ACL_FROM_MODE false
#  define acl_from_mode(mode) (NULL)
diff -urNp coreutils-8.4/lib/file-has-acl.c coreutils-8.4-orig/lib/file-has-acl.c
--- coreutils-8.4/lib/file-has-acl.c 2010-01-04 17:19:05.000000000 +0100
+++ coreutils-8.4-orig/lib/file-has-acl.c 2011-10-04 15:47:02.195436033 +0200
@@ -23,6 +23,33 @@ acl_nontrivial (struct acl *a)

#include "acl-internal.h"

+/* acl_extended_file() tests whether a file has an ACL.  But it can trigger
+ unnecessary autofs mounts.  In newer versions of libacl, a function
+ acl_extended_file_nofollow() is available that uses lgetxattr() and
+ therefore does not have this problem.  It is equivalent to
+ acl_extended_file(), except on symbolic links.  */
+
+static int
+acl_extended_file_wrap (char const *name)
+{
+ if ( ! HAVE_ACL_EXTENDED_FILE)
+  return -1;
+
+ if (HAVE_ACL_EXTENDED_FILE_NOFOLLOW)
+  {
+   struct stat sb;
+   if (! lstat (name, &sb) && ! S_ISLNK (sb.st_mode))
+    /* acl_extended_file_nofollow() uses lgetxattr() in order to
+    prevent unnecessary mounts.  It returns the same result as
+    acl_extended_file() since we already know that NAME is not a
+    symbolic link at this point (modulo the TOCTTOU race condition).  */
+    return acl_extended_file_nofollow (name);
+  }
+
+ /* fallback for symlinks and old versions of libacl */
+ return acl_extended_file (name);
+}
+
#if USE_ACL && HAVE_ACL_GET_FILE

@@ -315,10 +342,7 @@ file_has_acl (char const *name, struct s

  if (HAVE_ACL_EXTENDED_FILE) /* Linux */
  {
-   /* On Linux, acl_extended_file is an optimized function: It only
-    makes two calls to getxattr(), one for ACL_TYPE_ACCESS, one for

```

```

-     ACL_TYPE_DEFAULT. */
-     ret = acl_extended_file (name);
+     ret = acl_extended_file_wrap (name);
    }
    else /* FreeBSD, MacOS X, IRIX, Tru64 */
    {
diff -urNp coreutils-8.4/m4/acl.m4 coreutils-8.4-orig/m4/acl.m4
--- coreutils-8.4/m4/acl.m4 2010-01-04 17:19:05.000000000 +0100
+++ coreutils-8.4-orig/m4/acl.m4 2011-10-04 15:47:02.196438425 +0200
@@ -33,7 +33,7 @@ AC_DEFUN([gl_FUNC_ACL],
    AC_CHECK_FUNCS(
      [acl_get_file acl_get_fd acl_set_file acl_set_fd \
        acl_free acl_from_mode acl_from_text \
-       acl_delete_def_file acl_extended_file \
+       acl_delete_def_file acl_extended_file acl_extended_file_nofollow \
        acl_delete_fd_np acl_delete_file_np \
        acl_copy_ext_native acl_create_entry_np \
        acl_to_short_text acl_free_text])
diff -urNp coreutils-8.4-orig/tests/ls/slink-acl coreutils-8.4/tests/ls/slink-acl
--- coreutils-8.4-orig/tests/ls/slink-acl 1970-01-01 01:00:00.000000000 +0100
+++ coreutils-8.4/tests/ls/slink-acl 2011-10-04 15:50:09.338551867 +0200
@@ -0,0 +1,36 @@
+#!/bin/sh
+# verify that ls -l works when applied to a symlink to an ACL'd file
+
+# Copyright (C) 2011 Free Software Foundation, Inc.
+
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+
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+
+if test "$VERBOSE" = yes; then
+  set -x
+  ls --version
+fi
+
+. $srcdir/test-lib.sh
+require_setacl_
+

```

```

+touch k || framework_failure_
+setfacl -m user:${USER}:r k || framework_failure_
+ln -s k s || framework_failure_
+
+set _ $(ls -Log s); shift; link=$1
+set _ $(ls -og k); shift; reg=$1
+
+test "$link" = "$reg" || fail=1
+
+Exit $fail
diff -urNp coreutils-8.4-orig/tests/Makefile.am coreutils-8.4/tests/Makefile.am
--- coreutils-8.4-orig/tests/Makefile.am 2011-10-04 15:47:02.077561647 +0200
+++ coreutils-8.4/tests/Makefile.am 2011-10-04 15:48:23.127014791 +0200
@@ -385,6 +385,7 @@ TESTS = \
  ls/readdir-mountpoint-inode \
  ls/recursive \
  ls/rt-1 \
+ ls/slink-acl \
  ls/stat-dtype \
  ls/stat-failed \
  ls/stat-free-symlinks \
diff -urNp coreutils-8.4-orig/tests/test-lib.sh coreutils-8.4/tests/test-lib.sh
--- coreutils-8.4-orig/tests/test-lib.sh 2011-10-04 15:47:02.235439128 +0200
+++ coreutils-8.4/tests/test-lib.sh 2011-10-04 15:47:54.067560983 +0200
@@ -79,6 +79,12 @@ require_selinux_enforcing()
  || skip_test_ "This test is useful only with SELinux in Enforcing mode."
}

```

```

+require_setfacl()
+{
+ setfacl -m user::rwx . \
+ || skip_ "setfacl does not work on the current file system"
+}
+
require_opensupport()
{
  # Skip this test if your system has neither the opensat-style functions
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Version 3, 29 June 2007

```

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```
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```

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```
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under certain conditions; type 'show c' for details.
```

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1.45 cracklib 2.8.16 :4.e16

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Ty Coon, President of Vice

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<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version

2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

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Modifications: Added cronjob, configuration file, and man pages.

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licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected

in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

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yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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Nathan Neulinger is the only one who can actually make said change ...
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)

Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
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> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
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> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

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From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
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Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)

id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.46 cronie 1.4.4 :7.el6

1.46.1 Available under license :

/*

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*

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*

*/

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 * Paul Vixie.
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 * 2. Redistributions in binary form must reproduce the above copyright
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 *
 * @(#)bitstring.h 8.1 (Berkeley) 7/19/93
 */

1.47 crontabs 1.10 :33.el6

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```
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=====

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 */
Czech translation for cryptsetup.
# Copyright (C) 2010 Free Software Foundation, Inc.
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```

1.49 cups 1.4.2 :48.e16_3.3

1.49.1 Available under license :

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1 Infinite Loop
Cupertino, CA 95014 USA

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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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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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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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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Ty Coon, President of Vice

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1.50 curl 7.19.7 :35.e16

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#           _ _ _ _ _
# Project   _||| _\|
#           /_|||_|
#           |(_|| _<|_
#           \_||_|_||
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# $Id: acinclude.m4,v 1.239 2009-09-02 17:48:26 bagder Exp $
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- +

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```

CHANGES      | 20 ++++
figure.ac     | 3 +-
lib/Makefile.inc | 4 +-
lib/curl_md4.h | 33 +++++++
lib/http_ntlm.c | 126 ++++++++
lib/md4.c     | 281 ++++++++
lib/nss.c     | 162 ++++++++
lib/nssg.h    | 3 +
lib/setup.h  | 2 +-
9 files changed, 556 insertions(+), 78 deletions(-)

```

```

#ifndef HEADER_CURL_MD4_H
#define HEADER_CURL_MD4_H
+/******

```

```

+ *
+ * Project      _ _ _ _ _
+ *            _||| | _\||
+ *           / _||| |_) ||
+ *          |(_| | | _<| |__
+ *          \_||\_/| | \ \___|
+ *
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+ * KIND, either express or implied.
+ *
+ * *****/
+
+#include "setup.h"
+
+/* NSS crypto library does not provide the MD4 hash algorithm, so that we have
+ * a local implementation of it */
+
+/*-
+ Copyright (C) 1990-2, RSA Data Security, Inc. All rights reserved.
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+

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1.52 cvs 1.11.23 :15.el6

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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; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at <http://www.gnu.org/>]

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Version 1, February 1989

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Preamble

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b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use

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b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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; either version 1, or (at your option)  
any later version.
```

```
This program 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  
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```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc.
```

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a

derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has

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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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- b) 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.
- c) 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.
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or  
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That's all there is to it!
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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1.53 cyrus-sasl 2.1.23 :13.el6_3.1

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* Tim Martin

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1.54 cyrus-sasl 2.1.21

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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; either version 2 of the License, or  
(at your option) any later version.
```

```
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```

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
/* decode-gcov.c gcov decoder program
```

```
*
```

```
* Copyright (C) 2003 Red Hat Inc.
```

```
*
```

```
* Partially derived from gcov,
```

```
* Copyright (C) 1990, 1991, 1992, 1993, 1994, 1996, 1997, 1998,
```

```
* 1999, 2000, 2001, 2002 Free Software Foundation, Inc.
```

```
*
```

```
* This file is NOT licensed under the Academic Free License
```

```
* as it is largely derived from gcov.c and gcov-io.h in the
```

```
* gcc source code.
```

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 *
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 *
 * You should have received a copy of the GNU General Public License
 * along with this program; if not, write to the Free Software
 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
 *
 */

1.61 deltarpm 3.5

1.61.1 Available under license :

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1.62 DESCipher java 1

1.62.1 Available under license :

```
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//
// The meat of this code is by Dave Zimmerman <dzimm@widget.com>, and is:
//
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```

```
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// SUCH DAMAGE.
//
// Visit the ACME Labs Java page for up-to-date versions of this and other
// fine Java utilities: http://www.acme.com/java/
```

1.63 device-mapper-multipath 0.4.9 :56.el6

1.63.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.64 device-mapper-multipath 0.4.9 :64.el6

1.64.1 Available under license :

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Version 2, June 1991

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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c) 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.

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```

```
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```

```
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1.71 e2fsprogs 1.41.12 :14.el6

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Theodore Ts'o
23-June-2007

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```
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Ty Coon, President of Vice
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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<html xmlns="http://www.w3.org/1999/xhtml"><head>
```

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<meta name="generator" content="HTML Tidy, see www.w3.org">
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<link rel="stylesheet" type="text/css" href="copyright-software-19980720_files/base.css"><title>W3C IPR
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
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 */
```

[zlib]

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005
```

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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).

*/

[edoc, syntax_tools]

```
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%% USA  
%%  
%% $Id$  
%%  
%% @copyright 2001-2003 Richard Carlsson  
%% @author Richard Carlsson <richardc@csd.uu.se>  
%% [http://www.csd.uu.se/~richardc/]  
%% @version { @vsn }  
%% @end  
%% =====
```

[leex]

```
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[eldap]

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1.81 fipscheck 1.2.0 :7.el6

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1.83 freetype 2.3.11 :14.el6_3.1

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```
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```
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# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
```

```
/*
```

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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

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1.86 gcc 4.4.6 :4.e16

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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.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code 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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```
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```

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```
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```

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the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of

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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.

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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.

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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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.

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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Version 3, 29 June 2007

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
```

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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).

*/

1.88 gcc_libgcc 4.4.7

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```
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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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#

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Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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This program was configured as follows,

on host `(hostname || uname -n) 2>/dev/null | sed 1q`:

#

CC="\$old_CC" CFLAGS="\$old_CFLAGS" CPPFLAGS="\$old_CPPFLAGS" \
LD="\$old_LD" NM="\$old_NM" RANLIB="\$old_RANLIB" LN_S="\$old_LN_S" \
\$0\$ltconfig_args

#

Compiler and other test output produced by \$programe, useful for
debugging \$programe, is in ./config.log if it exists.

install - install a program, script, or datafile

This comes from X11R5 (mit/util/scripts/install.sh).

#

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#

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#
# Calling this script install-sh is preferred over install.sh, to prevent
# `make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
# from scratch. It can only install one file at a time, a restriction
# shared with many OS's install programs
```

1.90 gettext 0.17 :16.el6

1.90.1 Available under license :

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Version 3, 29 June 2007

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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 compile 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:

- a) 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.)
- b) 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.
- c) 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.
- d) 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 source code 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.

7. 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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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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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.

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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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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.

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.

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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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a) 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.)

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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.

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.

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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7. 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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b) 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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THE BASIC LIBRARY FUNCTIONS

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1.93 glibc-common 2.12 :1.107.el6

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```
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THE GNU MP LIBRARY

GNU MP is a library for arbitrary precision arithmetic, operating on signed integers, rational numbers, and floating point numbers. It has a rich set of functions, and the functions have a regular interface.

GNU MP is designed to be as fast as possible, both for small operands and huge operands. The speed is achieved by using fullwords as the basic arithmetic type, by using fast algorithms, with carefully optimized assembly code for the most common inner loops for lots of CPUs, and by a general emphasis on speed (instead of simplicity or elegance).

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OVERVIEW OF GNU MP

There are five classes of functions in GNU MP.

1. Signed integer arithmetic functions (mpz). These functions are intended to be easy to use, with their regular interface. The associated type is 'mpz_t'.
2. Rational arithmetic functions (mpq). For now, just a small set of functions necessary for basic rational arithmetics. The associated type is 'mpq_t'.
3. Floating-point arithmetic functions (mpf). If the C type 'double' doesn't give enough precision for your application, declare your variables as 'mpf_t' instead, set the precision to any number desired, and call the functions in the mpf class for the arithmetic operations.
4. Positive-integer, hard-to-use, very low overhead functions are in the mpn class. No memory management is performed. The caller must ensure enough space is available for the results. The set of functions is not regular, nor is the calling interface. These functions accept input arguments in the form of pairs consisting of a pointer to the least significant word, and an integral size telling how many limbs (= words) the pointer points to.

Almost all calculations, in the entire package, are made by calling these low-level functions.

5. Berkeley MP compatible functions.

To use these functions, include the file "mp.h". You can test if you are using the GNU version by testing if the symbol `__GNU_MP__` is defined.

For more information on how to use GNU MP, please refer to the documentation. It is composed from the file `doc/gmp.texi`, and can be displayed on the screen or printed. How to do that, as well how to build the library, is described in the `INSTALL` file in this directory.

REPORTING BUGS

If you find a bug in the library, please make sure to tell us about it!

You should first check the GNU MP web pages at <http://gmplib.org/>, under "Status of the current release". There will be patches for all known serious bugs there.

Report bugs to gmp-bugs@gmplib.org. What information is needed in a useful bug report is described in the manual. The same address can be used for suggesting modifications and enhancements.

```
-----  
Local variables:  
mode: text  
fill-column: 78  
End:
```

1.96 GNU getopt - java port 1.0.12

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Version 2, June 1991

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This option is useful when you wish to copy part of the code of

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It may happen that this requirement contradicts the license

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END OF TERMS AND CONDITIONS

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1.97 gnupg2 2.0.14 :4.e16

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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 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.

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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

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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.

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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.

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.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.101 grep 2.6.3 :3.e16

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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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* `snprintf.c` - a portable implementation of `snprintf`

*

* AUTHOR

* Mark Martinec <mark.martinec@ijs.si>, April 1999.

*

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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.

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```

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=====
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```
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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
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```

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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1.118 iptables 1.4.7 :5.1.el6_2

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Ty Coon, President of Vice
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1.119 iptutils 20071127 :16.el6

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```

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<signature of Ty Coon>, 1 April 1989
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 *
 * Authors: Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
 */
 * ifenslave.c: Configure network interfaces for parallel routing.
 *
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 *
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1.120 ipvsadm 1.25 :10.el6

1.120.1 Available under license :

ipvsadm - Version 1.14 - 11th January 2001

This is free software. See below for details.

ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:

<http://www.LinuxVirtualServer.org/>

or

<http://www.Linux-VS.org/>

for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type

```
make
```

in the source directory.

Install to your liking. We suggest the following pathnames:

```
/sbin/ipvsadm
```

```
/usr/man/man8/ipvsadm.8
```

This will be done automatically when calling

```
make install
```

in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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1.128 jaxrs-api 2.3.6

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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```
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```

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* httpd@ncsa.uiuc.edu
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```
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=====
```

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  <title>License</title>
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  <para>RESTEasy is distributed under the ASL 2.0 license. It does not distribute any thirdparty libraries that are GPL. It does ship thirdparty libraries licensed under Apache ASL 2.0 and LGPL.
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1.129 JBoss 4.2.2

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1.131 jibx 1.2.5

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.134 JSch 0.1.38

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1.135 JSON 20070829

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1.136 JSON in Java [package org.json] 2011-02-02

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```
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```

```
/*
```

```
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```

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```
*/
```

```
/**
```

- * This provides static methods to convert comma delimited text into a
- * JSONArray, and to convert a JSONArray into comma delimited text. Comma
- * delimited text is a very popular format for data interchange. It is
- * understood by most database, spreadsheet, and organizer programs.

```

* <p>
* Each row of text represents a row in a table or a data record. Each row
* ends with a NEWLINE character. Each row contains one or more values.
* Values are separated by commas. A value can contain any character except
* for comma, unless is is wrapped in single quotes or double quotes.
* <p>
* The first row usually contains the names of the columns.
* <p>
* A comma delimited list can be converted into a JSONArray of JSONObject.
* The names for the elements in the JSONObject can be taken from the names
* in the first row.
* @author JSON.org
* @version 2010-12-24
*/

```

```

public class CDL {

    /**
     * Get the next value. The value can be wrapped in quotes. The value can
     * be empty.
     * @param x A JSONTokener of the source text.
     * @return The value string, or null if empty.
     * @throws JSONException if the quoted string is badly formed.
     */
    private static String getValue(JSONTokener x) throws JSONException {
        char c;
        char q;
        StringBuffer sb;
        do {
            c = x.next();
        } while (c == ' ' || c == '\t');
        switch (c) {
            case 0:
                return null;
            case '"':
            case '\\':
                q = c;
                sb = new StringBuffer();
                for (;;) {
                    c = x.next();
                    if (c == q) {
                        break;
                    }
                    if (c == 0 || c == '\n' || c == '\r') {
                        throw x.syntaxError("Missing close quote '" + q + "'.");
                    }
                    sb.append(c);
                }
                return sb.toString();
        }
    }
}

```

```

    case ',':
        x.back();
        return "";
    default:
        x.back();
        return x.nextTo(',');
    }
}

/**
 * Produce a JSONArray of strings from a row of comma delimited values.
 * @param x A JSONTokener of the source text.
 * @return A JSONArray of strings.
 * @throws JSONException
 */
public static JSONArray rowToJSONArray(JSONTokener x) throws JSONException {
    JSONArray ja = new JSONArray();
    for (;;) {
        String value = getValue(x);
        char c = x.next();
        if (value == null ||
            (ja.length() == 0 && value.length() == 0 && c != ',')) {
            return null;
        }
        ja.put(value);
        for (;;) {
            if (c == ',') {
                break;
            }
            if (c != ' ') {
                if (c == '\n' || c == '\r' || c == 0) {
                    return ja;
                }
                throw x.syntaxError("Bad character '" + c + "' (" +
                    (int)c + ").");
            }
            c = x.next();
        }
    }
}

/**
 * Produce a JSONObject from a row of comma delimited text, using a
 * parallel JSONArray of strings to provides the names of the elements.
 * @param names A JSONArray of names. This is commonly obtained from the
 * first row of a comma delimited text file using the rowToJSONArray
 * method.
 * @param x A JSONTokener of the source text.

```

```

* @return A JSONObject combining the names and values.
* @throws JSONException
*/
public static JSONObject rowToJSONObject(JSONArray names, JSONTokener x)
    throws JSONException {
    JSONArray ja = rowToJSONArray(x);
    return ja != null ? ja.toJSONObject(names) : null;
}

/**
* Produce a comma delimited text row from a JSONArray. Values containing
* the comma character will be quoted. Troublesome characters may be
* removed.
* @param ja A JSONArray of strings.
* @return A string ending in NEWLINE.
*/
public static String rowToString(JSONArray ja) {
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        if (i > 0) {
            sb.append(',');
        }
        Object object = ja.opt(i);
        if (object != null) {
            String string = object.toString();
            if (string.length() > 0 && (string.indexOf(',') >= 0 ||
                string.indexOf('\n') >= 0 || string.indexOf('\r') >= 0 ||
                string.indexOf(0) >= 0 || string.charAt(0) == '"')) {
                sb.append("\"");
                int length = string.length();
                for (int j = 0; j < length; j += 1) {
                    char c = string.charAt(j);
                    if (c >= ' ' && c != '"') {
                        sb.append(c);
                    }
                }
                sb.append("\"");
            } else {
                sb.append(string);
            }
        }
    }
    sb.append('\n');
    return sb.toString();
}

/**
* Produce a JSONArray of JSONObject objects from a comma delimited text string,

```



```

* using the first row as a source of names.
* @param string The comma delimited text.
* @return A JSONArray of JSONObject.
* @throws JSONException
*/
public static JSONArray toJSONArray(String string) throws JSONException {
    return toJSONArray(new JSONTokener(string));
}

/**
* Produce a JSONArray of JSONObject from a comma delimited text string,
* using the first row as a source of names.
* @param x The JSONTokener containing the comma delimited text.
* @return A JSONArray of JSONObject.
* @throws JSONException
*/
public static JSONArray toJSONArray(JSONTokener x) throws JSONException {
    return toJSONArray(rowToJSONArray(x), x);
}

/**
* Produce a JSONArray of JSONObject from a comma delimited text string
* using a supplied JSONArray as the source of element names.
* @param names A JSONArray of strings.
* @param string The comma delimited text.
* @return A JSONArray of JSONObject.
* @throws JSONException
*/
public static JSONArray toJSONArray(JSONArray names, String string)
    throws JSONException {
    return toJSONArray(names, new JSONTokener(string));
}

/**
* Produce a JSONArray of JSONObject from a comma delimited text string
* using a supplied JSONArray as the source of element names.
* @param names A JSONArray of strings.
* @param x A JSONTokener of the source text.
* @return A JSONArray of JSONObject.
* @throws JSONException
*/
public static JSONArray toJSONArray(JSONArray names, JSONTokener x)
    throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    JSONArray ja = new JSONArray();
    for (;;) {

```

```

        JSONObject jo = rowToJSONObject(names, x);
        if (jo == null) {
            break;
        }
        ja.put(jo);
    }
    if (ja.length() == 0) {
        return null;
    }
    return ja;
}

/**
 * Produce a comma delimited text from a JSONArray of JSONObject. The
 * first row will be a list of names obtained by inspecting the first
 * JSONObject.
 * @param ja A JSONArray of JSONObject.
 * @return A comma delimited text.
 * @throws JSONException
 */
public static String toString(JSONArray ja) throws JSONException {
    JSONObject jo = ja.optJSONObject(0);
    if (jo != null) {
        JSONArray names = jo.names();
        if (names != null) {
            return rowToString(names) + toString(names, ja);
        }
    }
    return null;
}

/**
 * Produce a comma delimited text from a JSONArray of JSONObject using
 * a provided list of names. The list of names is not included in the
 * output.
 * @param names A JSONArray of strings.
 * @param ja A JSONArray of JSONObject.
 * @return A comma delimited text.
 * @throws JSONException
 */
public static String toString(JSONArray names, JSONArray ja)
    throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {

```

```

    JSONObject jo = ja.optJSONObject(i);
    if (jo != null) {
        sb.append(rowToString(jo.toJSONArray(names)));
    }
}
return sb.toString();
}
}

```

1.137 JUDDI 0.9rc4

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1.138 junit 4.8.1 :DUPLICATE

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The files

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getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c

psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c

setleds.c setmetamode.c setvesablank.c showconsolefont.c

spawn_console.c spawn_login.c

chvt.1 dealloct.1 kbd_mode.1 setleds.1 setmetamode.1

getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8

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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
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- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
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lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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)

*

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```
/* 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.iovcnt != 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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*
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/* zlib.h -- interface of the 'zlib' general purpose compression library

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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).

*/

1.143 keyutils 1.4 :4.e16

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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

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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.

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- a) 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.)

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.

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That's all there is to it!

1.144 keyutils-libs-devel 1.4 :4.el6

1.144.1 Available under license :

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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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1.145 krb5-libs 1.10.3 :10.el6

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cmd/krb5/ipropl/ipropl_hdr.h
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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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Version 2, June 1991

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```
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample
```

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```
@smallexample
include/iprop_hdr.h
```

```
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
@end smallexample
```

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lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_delete_sec_context.c
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lib/kdb/iprop.x
lib/kdb/kdb_convert.c
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1.149 libcap 2.16 :5.5.el6

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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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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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1.152 libconfig 1.3.2 :1.1.el6

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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.

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Ty Coon, President of Vice

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It was downloaded from <http://www.hyperrealm.com/libconfig>

Upstream Author: Mark A Lindner
Mark Lindner - Lead developer & maintainer.
Daniel Marjamdki - Enhancements & bugfixes.
Andrew Tytula - Windows Port.
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1.153 libdrm 2.4.25 :2.el6

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```
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 */
```

1.154 libedit 2.11 :4.20080712cvs.1.el6

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```

1.155 libevent 1.4.13 :4.el6

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```

# generated automatically by aclocal 1.10.1 -*- Autoconf -*-

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m4_ifndef([AC_AUTOCONF_VERSION],
  [m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])]dnl
m4_if(AC_AUTOCONF_VERSION, [2.63],,
  [m4_warning([this file was generated for autoconf 2.63.
You have another version of autoconf. It may work, but is not guaranteed to.
If you have problems, you may need to regenerate the build system entirely.
To do so, use the procedure documented by the package, typically 'autoreconf'.])])

# libtool.m4 - Configure libtool for the host system. -*-Autoconf-*-

# serial 52 AC_PROG_LIBTOOL

```

```

# AC_PROVIDE_IFELSE(MACRO-NAME, IF-PROVIDED, IF-NOT-PROVIDED)
# -----
# If this macro is not defined by Autoconf, define it here.
m4_ifdef([AC_PROVIDE_IFELSE],
  [],
  [m4_define([AC_PROVIDE_IFELSE],
    [m4_ifdef([AC_PROVIDE_$1],
      [$2], [$3])])])

# AC_PROG_LIBTOOL
# -----
AC_DEFUN([AC_PROG_LIBTOOL],
[AC_REQUIRE([_AC_PROG_LIBTOOL])dnl
dnl If AC_PROG_CXX has already been expanded, run AC_LIBTOOL_CXX
dnl immediately, otherwise, hook it in at the end of AC_PROG_CXX.
AC_PROVIDE_IFELSE([AC_PROG_CXX],
  [AC_LIBTOOL_CXX],
  [define([AC_PROG_CXX], defn([AC_PROG_CXX])[AC_LIBTOOL_CXX
  ])]])
dnl And a similar setup for Fortran 77 support
AC_PROVIDE_IFELSE([AC_PROG_F77],
  [AC_LIBTOOL_F77],
  [define([AC_PROG_F77], defn([AC_PROG_F77])[AC_LIBTOOL_F77
  ])]])

dnl Quote A][M_PROG_GCJ so that aclocal doesn't bring it in needlessly.
dnl If either AC_PROG_GCJ or A][M_PROG_GCJ have already been expanded, run
dnl AC_LIBTOOL_GCJ immediately, otherwise, hook it in at the end of both.
AC_PROVIDE_IFELSE([AC_PROG_GCJ],
  [AC_LIBTOOL_GCJ],
  [AC_PROVIDE_IFELSE([A][M_PROG_GCJ],
    [AC_LIBTOOL_GCJ],
    [AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],
      [AC_LIBTOOL_GCJ],
      [ifdef([AC_PROG_GCJ],
        [define([AC_PROG_GCJ], defn([AC_PROG_GCJ])[AC_LIBTOOL_GCJ])])
        ifdef([A][M_PROG_GCJ],
          [define([A][M_PROG_GCJ], defn([A][M_PROG_GCJ])[AC_LIBTOOL_GCJ])])
          ifdef([LT_AC_PROG_GCJ],
            [define([LT_AC_PROG_GCJ],
              defn([LT_AC_PROG_GCJ])[AC_LIBTOOL_GCJ])])])])])])])
  ])]])# AC_PROG_LIBTOOL

# _AC_PROG_LIBTOOL

```



```

# -----
AC_DEFUN([_AC_PROG_LIBTOOL],
[AC_REQUIRE([AC_LIBTOOL_SETUP])dnl
AC_BEFORE([$0],[AC_LIBTOOL_CXX])dnl
AC_BEFORE([$0],[AC_LIBTOOL_F77])dnl
AC_BEFORE([$0],[AC_LIBTOOL_GCJ])dnl

# This can be used to rebuild libtool when needed
LIBTOOL_DEPS="$ac_aux_dir/ltmain.sh"

# Always use our own libtool.
LIBTOOL='$(SHELL) $(top_builddir)/libtool'
AC_SUBST(LIBTOOL)dnl

# Prevent multiple expansion
define([AC_PROG_LIBTOOL], [])
])# _AC_PROG_LIBTOOL

# AC_LIBTOOL_SETUP
# -----
AC_DEFUN([AC_LIBTOOL_SETUP],
[AC_PREREQ(2.50)dnl
AC_REQUIRE([AC_ENABLE_SHARED])dnl
AC_REQUIRE([AC_ENABLE_STATIC])dnl
AC_REQUIRE([AC_ENABLE_FAST_INSTALL])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_PROG_LD])dnl
AC_REQUIRE([AC_PROG_LD_RELOAD_FLAG])dnl
AC_REQUIRE([AC_PROG_NM])dnl

AC_REQUIRE([AC_PROG_LN_S])dnl
AC_REQUIRE([AC_DEPLIBS_CHECK_METHOD])dnl
# Autoconf 2.13's AC_OBJEXT and AC_EXEEXT macros only works for C compilers!
AC_REQUIRE([AC_OBJEXT])dnl
AC_REQUIRE([AC_EXEEXT])dnl
dnl
AC_LIBTOOL_SYS_MAX_CMD_LEN
AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
AC_LIBTOOL_OBJDIR

AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl
_LT_AC_PROG_ECHO_BACKSLASH

case $host_os in
aix3*)

```



```

test -z "$AR_FLAGS" && AR_FLAGS=cru
test -z "$AS" && AS=as
test -z "$CC" && CC=cc
test -z "$LTCC" && LTCC=$CC
test -z "$LTCFLAGS" && LTCFLAGS=$CFLAGS
test -z "$DLLTOOL" && DLLTOOL=dlltool
test -z "$LD" && LD=ld
test -z "$LN_S" && LN_S="ln -s"
test -z "$MAGIC_CMD" && MAGIC_CMD=file
test -z "$NM" && NM=nm
test -z "$SED" && SED=sed
test -z "$OBJDUMP" && OBJDUMP=objdump
test -z "$RANLIB" && RANLIB=:
test -z "$STRIP" && STRIP=:
test -z "$ac_objext" && ac_objext=o

```

```

# Determine commands to create old-style static archives.

```

```

old_archive_cmds='$AR $AR_FLAGS $oldlib$oldobjs'

```

```

old_postinstall_cmds='chmod 644 $oldlib'

```

```

old_postuninstall_cmds=

```

```

if test -n "$RANLIB"; then

```

```

  case $host_os in

```

```

    openbsd*)

```

```

      old_postinstall_cmds="$old_postinstall_cmds~\${RANLIB} -t \${oldlib}"

```

```

      ;;

```

```

    *)

```

```

      old_postinstall_cmds="$old_postinstall_cmds~\${RANLIB} \${oldlib}"

```

```

      ;;

```

```

  esac

```

```

  old_archive_cmds="$old_archive_cmds~\${RANLIB} \${oldlib}"

```

```

fi

```

```

_LT_CC_BASENAME([$compiler])

```

```

# Only perform the check for file, if the check method requires it

```

```

case $deplibs_check_method in

```

```

  file_magic*)

```

```

    if test "$file_magic_cmd" = '$MAGIC_CMD'; then

```

```

      AC_PATH_MAGIC

```

```

    fi

```

```

    ;;

```

```

  esac

```

```

_LT_REQUIRED_DARWIN_CHECKS

```

```

AC_PROVIDE_IFELSE([AC_LIBTOOL_DLOPEN], enable_dlopen=yes, enable_dlopen=no)

```

```

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],

```

```

enable_win32_dll=yes, enable_win32_dll=no)

AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
  [avoid locking (might break parallel builds)])]
  test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

AC_ARG_WITH([pic],
  [AC_HELP_STRING([--with-pic],
  [try to use only PIC/non-PIC objects @<:@default=use both@:>@)],
  [pic_mode="$withval"],
  [pic_mode=default])
  test -z "$pic_mode" && pic_mode=default

# Use C for the default configuration in the libtool script
tagname=
AC_LIBTOOL_LANG_C_CONFIG
_LT_AC_TAGCONFIG
])# AC_LIBTOOL_SETUP

# _LT_AC_SYS_COMPILER
# -----
AC_DEFUN([_LT_AC_SYS_COMPILER],
[AC_REQUIRE([AC_PROG_CC])dnl

# If no C compiler was specified, use CC.
LTCC=${LTCC-"$CC"}

# If no C compiler flags were specified, use CFLAGS.
LTCFLAGS=${LTCFLAGS-"$CFLAGS"}

# Allow CC to be a program name with arguments.
compiler=$CC
])# _LT_AC_SYS_COMPILER

# _LT_CC_BASENAME(CC)
# -----
# Calculate cc_basename.  Skip known compiler wrappers and cross-prefix.
AC_DEFUN([_LT_CC_BASENAME],
[for cc_temp in $1""; do
  case $cc_temp in
    compile | *[[\V]]compile | ccache | *[[\V]]ccache ) ;;
    distcc | *[[\V]]distcc | purify | *[[\V]]purify ) ;;
    \-*) ;;
    *) break;;
  esac
esac

```

```
done
cc_basename='$(echo "X$cc_temp" | $Xsed -e 's%.*/%%' -e "s%^$host_alias-%%"
)

```

```
# _LT_COMPILER_BOILERPLATE
# -----
# Check for compiler boilerplate output or warnings with
# the simple compiler test code.
AC_DEFUN([_LT_COMPILER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_compile_test_code" >conftest.$ac_ext
eval "$ac_compile" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_compiler_boilerplate='cat conftest.err'
$rm conftest*
])# _LT_COMPILER_BOILERPLATE

```

```
# _LT_LINKER_BOILERPLATE
# -----
# Check for linker boilerplate output or warnings with
# the simple link test code.
AC_DEFUN([_LT_LINKER_BOILERPLATE],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
ac_outfile=conftest.$ac_objext
echo "$lt_simple_link_test_code" >conftest.$ac_ext
eval "$ac_link" 2>&1 >/dev/null | $SED '/^$/d; /^ *+/d' >conftest.err
_lt_linker_boilerplate='cat conftest.err'
$rm -r conftest*
])# _LT_LINKER_BOILERPLATE

```

```
# _LT_REQUIRED_DARWIN_CHECKS
# -----
# Check for some things on darwin
AC_DEFUN([_LT_REQUIRED_DARWIN_CHECKS],[
case $host_os in
  rhapsody* | darwin*)
    AC_CHECK_TOOL([DSYMUTIL], [dsymutil], [:])
    AC_CHECK_TOOL([NMEDIT], [nmedit], [:])

    AC_CACHE_CHECK([for -single_module linker flag],[lt_cv_apple_cc_single_mod],
      [lt_cv_apple_cc_single_mod=no
      if test -z "${LT_MULTI_MODULE}"; then
        # By default we will add the -single_module flag. You can override
        # by either setting the environment variable LT_MULTI_MODULE
        # non-empty at configure time, or by adding -multi_module to the
        # link flags.

```

```

echo "int foo(void){return 1;}" > conftest.c
$LTCC $LTCFLAGS $LDFLAGS -o libconftest.dylib \
  -dynamiclib ${wl}-single_module conftest.c
if test -f libconftest.dylib; then
  lt_cv_apple_cc_single_mod=yes
  rm -rf libconftest.dylib*
fi
rm conftest.c
fi])
AC_CACHE_CHECK([for -exported_symbols_list linker flag],
  [lt_cv_ld_exported_symbols_list],
  [lt_cv_ld_exported_symbols_list=no
  save_LDFLAGS=$LDFLAGS
  echo "_main" > conftest.sym
  LDFLAGS="$LDFLAGS -Wl,-exported_symbols_list,conftest.sym"
  AC_LINK_IFELSE([AC_LANG_PROGRAM([],[])],
  [lt_cv_ld_exported_symbols_list=yes],
  [lt_cv_ld_exported_symbols_list=no])
  LDFLAGS="$save_LDFLAGS"
  ])
case $host_os in
rhapsody* | darwin1.[0123])
  _lt_dar_allow_undefined='${wl}-undefined ${wl}suppress' ;;
darwin1.*)
  _lt_dar_allow_undefined='${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
darwin*)
  # if running on 10.5 or later, the deployment target defaults
  # to the OS version, if on x86, and 10.4, the deployment
  # target defaults to 10.4. Don't you love it?
  case ${MACOSX_DEPLOYMENT_TARGET-10.0},$host in
10.0,*86*-darwin8*|10.0,*-darwin[[91]]*)
  _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
10.[012]*)
  _lt_dar_allow_undefined='${wl}-flat_namespace ${wl}-undefined ${wl}suppress' ;;
10.*)
  _lt_dar_allow_undefined='${wl}-undefined ${wl}dynamic_lookup' ;;
esac
;;
esac
if test "$lt_cv_apple_cc_single_mod" = "yes"; then
  _lt_dar_single_mod='single_module'
fi
if test "$lt_cv_ld_exported_symbols_list" = "yes"; then
  _lt_dar_export_syms=' ${wl}-exported_symbols_list,$output_objdir/${libname}-symbols.expsym'
else
  _lt_dar_export_syms="~$NMEDIT -s $output_objdir/${libname}-symbols.expsym ${lib}"
fi
if test "$DSYMUTIL" != ":"; then

```

```

    _lt_dsymutil=~$DSYMUTIL \lib || :
else
    _lt_dsymutil=
fi
;;
esac
)

# _LT_AC_SYS_LIBPATH_AIX
# -----
# Links a minimal program and checks the executable
# for the system default hardcoded library path. In most cases,
# this is /usr/lib/lib, but when the MPI compilers are used
# the location of the communication and MPI libs are included too.
# If we don't find anything, use the default library path according
# to the aix ld manual.
AC_DEFUN([_LT_AC_SYS_LIBPATH_AIX],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_LINK_IFELSE(AC_LANG_PROGRAM,[
lt_aix_libpath_sed='
    /Import File Strings/,/^$/ {
/^0/ {
    s/^0 *(.*)$/\1/
    p
}
}'
aix_libpath='dump -H conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"'
# Check for a 64-bit object if we didn't find anything.
if test -z "$aix_libpath"; then
    aix_libpath='dump -HX64 conftest$ac_exeext 2>/dev/null | $SED -n -e "$lt_aix_libpath_sed"'
fi,[])
if test -z "$aix_libpath"; then aix_libpath="/usr/lib/lib"; fi
])# _LT_AC_SYS_LIBPATH_AIX

# _LT_AC_SHELL_INIT(ARG)
# -----
AC_DEFUN([_LT_AC_SHELL_INIT],
[ifdef([AC_DIVERSION_NOTICE],
    [AC_DIVERT_PUSH(AC_DIVERSION_NOTICE)],
    [AC_DIVERT_PUSH(NOTICE)])
$1
AC_DIVERT_POP
])# _LT_AC_SHELL_INIT

# _LT_AC_PROG_ECHO_BACKSLASH
# -----

```

```

# Add some code to the start of the generated configure script which
# will find an echo command which doesn't interpret backslashes.
AC_DEFUN([_LT_AC_PROG_ECHO_BACKSLASH],
[_LT_AC_SHELL_INIT([
# Check that we are running under the correct shell.
SHELL=${CONFIG_SHELL-/bin/sh}

case X$ECHO in
X*--fallback-echo)
# Remove one level of quotation (which was required for Make).
ECHO='echo "$ECHO" | sed 's,\\[[\]]\\[[\]]0,[$]0,[$]0','
;;
esac

echo=${ECHO-echo}
if test "X[$]1" = X--no-reexec; then
# Discard the --no-reexec flag, and continue.
shift
elif test "X[$]1" = X--fallback-echo; then
# Avoid inline document here, it may be left over
:
elif test "X`($echo \t) 2>/dev/null` = 'X\t'; then
# Yippee, $echo works!
:
else
# Restart under the correct shell.
exec $SHELL "[$]0" --no-reexec ${1+"[$]@"}
fi

if test "X[$]1" = X--fallback-echo; then
# used as fallback echo
shift
cat <<EOF
[$]*
EOF
exit 0
fi

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

if test -z "$ECHO"; then
if test "X${echo_test_string+set}" != Xset; then
# find a string as large as possible, as long as the shell can cope with it
for cmd in 'sed 50q "[$]0"' 'sed 20q "[$]0"' 'sed 10q "[$]0"' 'sed 2q "[$]0"' 'echo test'; do
# expected sizes: less than 2Kb, 1Kb, 512 bytes, 16 bytes, ...
if (echo_test_string='eval $cmd') 2>/dev/null &&

```



```

    echo_test_string='eval $cmd' &&
    (test "X$echo_test_string" = "X$echo_test_string") 2>/dev/null
then
    break
fi
done
fi

if test "X'($echo `t`) 2>/dev/null" = 'X`t' &&
    echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
:
else
# The Solaris, AIX, and Digital Unix default echo programs unquote
# backslashes. This makes it impossible to quote backslashes using
# echo "$something" | sed 's/\\|\\|g'
#
# So, first we look for a working echo in the user's PATH.

It_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for dir in $PATH /usr/ucb; do
    IFS="$It_save_ifs"
    if (test -f $dir/echo || test -f $dir/echo$ac_exeext) &&
        test "X'($dir/echo `t`) 2>/dev/null" = 'X`t' &&
        echo_testing_string='($dir/echo "$echo_test_string") 2>/dev/null' &&
        test "X$echo_testing_string" = "X$echo_test_string"; then
        echo="$dir/echo"
        break
    fi
done
IFS="$It_save_ifs"

if test "X$echo" = Xecho; then
# We didn't find a better echo, so look for alternatives.
if test "X'(print -r `t`) 2>/dev/null" = 'X`t' &&
    echo_testing_string='(print -r "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
# This shell has a builtin print -r that does the trick.
echo='print -r'
elif (test -f /bin/ksh || test -f /bin/ksh$ac_exeext) &&
test "X$CONFIG_SHELL" != X/bin/ksh; then
# If we have ksh, try running configure again with it.
ORIGINAL_CONFIG_SHELL=${CONFIG_SHELL-/bin/sh}
export ORIGINAL_CONFIG_SHELL
CONFIG_SHELL=/bin/ksh
export CONFIG_SHELL
exec $CONFIG_SHELL "$[0]" --no-reexec ${1+"[$]@"}
else

```

```

# Try using printf.
echo='printf %s\n'
if test "X'($echo \t) 2>/dev/null" = 'X\t' &&
echo_testing_string='($echo "$echo_test_string") 2>/dev/null' &&
test "X$echo_testing_string" = "X$echo_test_string"; then
# Cool, printf works
:
    elif echo_testing_string='($ORIGINAL_CONFIG_SHELL "$[0]" --fallback-echo \t) 2>/dev/null' &&
    test "X$echo_testing_string" = 'X\t' &&
    echo_testing_string='($ORIGINAL_CONFIG_SHELL "$[0]" --fallback-echo "$echo_test_string") 2>/dev/null'
&&
    test "X$echo_testing_string" = "X$echo_test_string"; then
CONFIG_SHELL=$ORIGINAL_CONFIG_SHELL
export CONFIG_SHELL
SHELL="$CONFIG_SHELL"
export SHELL
echo="$CONFIG_SHELL [0] --fallback-echo"
    elif echo_testing_string='($CONFIG_SHELL "$[0]" --fallback-echo \t) 2>/dev/null' &&
    test "X$echo_testing_string" = 'X\t' &&
    echo_testing_string='($CONFIG_SHELL "$[0]" --fallback-echo "$echo_test_string") 2>/dev/null' &&
    test "X$echo_testing_string" = "X$echo_test_string"; then
echo="$CONFIG_SHELL [0] --fallback-echo"
    else
# maybe with a smaller string...
prev=:

for cmd in 'echo test' 'sed 2q "[0]"' 'sed 10q "[0]"' 'sed 20q "[0]"' 'sed 50q "[0]"'; do
if (test "X$echo_test_string" = "X'eval $cmd") 2>/dev/null
then
break
fi
prev="$cmd"
done

if test "$prev" != 'sed 50q "[0]"'; then
echo_test_string='eval $prev'
export echo_test_string
exec ${ORIGINAL_CONFIG_SHELL-${CONFIG_SHELL-/bin/sh}} "$[0]" ${1+"$@"}
else
# Oops. We lost completely, so just stick with echo.
echo=echo
fi
fi
fi
fi
fi
fi

```

```

# Copy echo and quote the copy suitably for passing to libtool from
# the Makefile, instead of quoting the original, which is used later.
ECHO=$echo
if test "X$ECHO" = "X$CONFIG_SHELL [$]0 --fallback-echo"; then
  ECHO="$CONFIG_SHELL \\\$\[ $]0 --fallback-echo"
fi

```

```

AC_SUBST(ECHO)
))# _LT_AC_PROG_ECHO_BACKSLASH

```

```

# _LT_AC_LOCK
# -----
AC_DEFUN([_LT_AC_LOCK],
[AC_ARG_ENABLE([libtool-lock],
  [AC_HELP_STRING([--disable-libtool-lock],
  [avoid locking (might break parallel builds)])])
test "x$enable_libtool_lock" != xno && enable_libtool_lock=yes

```

```

# Some flags need to be propagated to the compiler or linker for good
# libtool support.

```

```

case $host in
ia64-*-hpux*)
  # Find out which ABI we are using.
  echo 'int i;' > conftest.$ac_ext
  if AC_TRY_EVAL(ac_compile); then
    case '/usr/bin/file conftest.$ac_objext' in
      *ELF-32*)
        HPUX_IA64_MODE="32"
        ;;
      *ELF-64*)
        HPUX_IA64_MODE="64"
        ;;
    esac
  fi
  rm -rf conftest*
  ;;
*-*-irix6*)
  # Find out which ABI we are using.
  echo '[#]line __oline__ "configure"' > conftest.$ac_ext
  if AC_TRY_EVAL(ac_compile); then
    if test "$lt_cv_prog_gnu_ld" = yes; then
      case '/usr/bin/file conftest.$ac_objext' in
        *32-bit*)
          LD="{LD-ld} -melf32bsmip"
          ;;
        *N32*)
          LD="{LD-ld} -melf32bmipn32"

```

```

;;
*64-bit*)
    LD="{LD-ld} -melf64bmip"
;;
esac
else
case '/usr/bin/file conftest.$ac_objext' in
*32-bit*)
    LD="{LD-ld} -32"
;;
*N32*)
    LD="{LD-ld} -n32"
;;
*64-bit*)
    LD="{LD-ld} -64"
;;
esac
fi
fi
rm -rf conftest*
;;

x86_64-*kfreebsd*-gnu|x86_64-*linux*|ppc*-*linux*|powerpc*-*linux*| \
s390*-*linux*|sparc*-*linux*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
case '/usr/bin/file conftest.o' in
*32-bit*)
case $host in
x86_64-*kfreebsd*-gnu)
    LD="{LD-ld} -m elf_i386_fbsd"
;;
x86_64-*linux*)
    LD="{LD-ld} -m elf_i386"
;;
ppc64-*linux*|powerpc64-*linux*)
    LD="{LD-ld} -m elf32ppclinux"
;;
s390x-*linux*)
    LD="{LD-ld} -m elf_s390"
;;
sparc64-*linux*)
    LD="{LD-ld} -m elf32_sparc"
;;
esac
;;
*64-bit*)

```

```

case $host in
  x86_64-*kfreebsd*-gnu)
    LD="{LD-ld} -m elf_x86_64_fbsd"
    ;;
  x86_64-*linux*)
    LD="{LD-ld} -m elf_x86_64"
    ;;
  ppc*-*linux*|powerpc*-*linux*)
    LD="{LD-ld} -m elf64ppc"
    ;;
  s390*-*linux*)
    LD="{LD-ld} -m elf64_s390"
    ;;
  sparc*-*linux*)
    LD="{LD-ld} -m elf64_sparc"
    ;;
esac
;;
esac
fi
rm -rf conftest*
;;

*-*_sco3.2v5*)
# On SCO OpenServer 5, we need -belf to get full-featured binaries.
SAVE_CFLAGS="$CFLAGS"
CFLAGS="$CFLAGS -belf"
AC_CACHE_CHECK([whether the C compiler needs -belf], lt_cv_cc_needs_belf,
[AC_LANG_PUSH(C)
AC_TRY_LINK([],[],[lt_cv_cc_needs_belf=yes],[lt_cv_cc_needs_belf=no])
AC_LANG_POP])
if test x"$lt_cv_cc_needs_belf" != x"yes"; then
# this is probably gcc 2.8.0, egcs 1.0 or newer; no need for -belf
CFLAGS="$SAVE_CFLAGS"
fi
;;
sparc*-*solaris*)
# Find out which ABI we are using.
echo 'int i;' > conftest.$ac_ext
if AC_TRY_EVAL(ac_compile); then
case '/usr/bin/file conftest.o' in
  *64-bit*)
    case $lt_cv_prog_gnu_ld in
      yes*) LD="{LD-ld} -m elf64_sparc" ;;
      *)
        if ${LD-ld} -64 -r -o conftest2.o conftest.o >/dev/null 2>&1; then
          LD="{LD-ld} -64"
        fi
      fi
    fi
  fi
fi

```

```

;;
    esac
    ;;
    esac
fi
rm -rf conftest*
;;

AC_PROVIDE_IFELSE([AC_LIBTOOL_WIN32_DLL],
[*-*-cygwin* | *-*-mingw* | *-*-pw32*]
AC_CHECK_TOOL(DLLTOOL, dlltool, false)
AC_CHECK_TOOL(AS, as, false)
AC_CHECK_TOOL(OBJDUMP, objdump, false)
;;
])
esac

need_locks="$enable_libtool_lock"

])# _LT_AC_LOCK

# AC_LIBTOOL_COMPILER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
# [OUTPUT-FILE], [ACTION-SUCCESS], [ACTION-FAILURE])
# -----
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_COMPILER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])
AC_CACHE_CHECK([$1], [$2],
[$2=no
ifelse([$4], , [ac_outfile=conftest.$ac_objext], [ac_outfile=$4])
echo "$lt_simple_compile_test_code" > conftest.$ac_ext
lt_compiler_flag="$3"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
# The option is referenced via a variable to avoid confusing sed.
lt_compile='echo "$ac_compile" | $SED \
-e 's:.*FLAGS}\{0,1\} :&$lt_compiler_flag ;; t' \
-e 's: [[^ ]]*conftest\.: $lt_compiler_flag&; t' \
-e 's: $: $lt_compiler_flag:'"
(eval echo "\"\$as_me: __oline__: $lt_compile\"" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>conftest.err)
ac_status=$?
cat conftest.err >&AS_MESSAGE_LOG_FD
echo "$as_me: __oline__: \ $? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) && test -s "$ac_outfile"; then

```

```

# The compiler can only warn and ignore the option if not recognized
# So say no if there are warnings other than the usual output.
$echo "X$_lt_compiler_boilerplate" | $Xsed -e '/^$/d' >conftest.exp
$SED '/^$/d; /^ *+$/d' conftest.err >conftest.er2
if test ! -s conftest.er2 || diff conftest.exp conftest.er2 >/dev/null; then
  $2=yes
fi
fi
$rm conftest*
)

if test x"[$]2" = xyес; then
  ifelse([$5], , :, [$5])
else
  ifelse([$6], , :, [$6])
fi
])# AC_LIBTOOL_COMPILER_OPTION

# AC_LIBTOOL_LINKER_OPTION(MESSAGE, VARIABLE-NAME, FLAGS,
#                            [ACTION-SUCCESS], [ACTION-FAILURE])
# -----
# Check whether the given compiler option works
AC_DEFUN([AC_LIBTOOL_LINKER_OPTION],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_CACHE_CHECK([$1], [$2],
[$2=no
save_LDFLAGS="$LDFLAGS"
LDFLAGS="$LDFLAGS $3"
echo "$lt_simple_link_test_code" > conftest.$ac_ext
if (eval $ac_link 2>conftest.err) && test -s conftest.$ac_exeext; then
  # The linker can only warn and ignore the option if not recognized
  # So say no if there are warnings
  if test -s conftest.err; then
    # Append any errors to the config.log.
    cat conftest.err 1>&AS_MESSAGE_LOG_FD
    $echo "X$_lt_linker_boilerplate" | $Xsed -e '/^$/d' > conftest.exp
    $SED '/^$/d; /^ *+$/d' conftest.err >conftest.er2
    if diff conftest.exp conftest.er2 >/dev/null; then
      $2=yes
    fi
  else
    $2=yes
  fi
fi
$rm -r conftest*
LDFLAGS="$save_LDFLAGS"
])

```

```

if test x"[$]2" = xyes; then
  ifelse([$4], , :, [$4])
else
  ifelse([$5], , :, [$5])
fi
])# AC_LIBTOOL_LINKER_OPTION

# AC_LIBTOOL_SYS_MAX_CMD_LEN
# -----
AC_DEFUN([AC_LIBTOOL_SYS_MAX_CMD_LEN],
[# find the maximum length of command line arguments
AC_MSG_CHECKING([the maximum length of command line arguments])
AC_CACHE_VAL([lt_cv_sys_max_cmd_len], [dnl
i=0
teststring="ABCD"

case $build_os in
msdosdjgpp*)
  # On DJGPP, this test can blow up pretty badly due to problems in libc
  # (any single argument exceeding 2000 bytes causes a buffer overrun
  # during glob expansion). Even if it were fixed, the result of this
  # check would be larger than it should be.
  lt_cv_sys_max_cmd_len=12288; # 12K is about right
  ;;

gnu*)
  # Under GNU Hurd, this test is not required because there is
  # no limit to the length of command line arguments.
  # Libtool will interpret -1 as no limit whatsoever
  lt_cv_sys_max_cmd_len=-1;
  ;;

cygwin* | mingw*)
  # On Win9x/ME, this test blows up -- it succeeds, but takes
  # about 5 minutes as the teststring grows exponentially.
  # Worse, since 9x/ME are not pre-emptively multitasking,
  # you end up with a "frozen" computer, even though with patience
  # the test eventually succeeds (with a max line length of 256k).
  # Instead, let's just punt: use the minimum linelength reported by
  # all of the supported platforms: 8192 (on NT/2K/XP).
  lt_cv_sys_max_cmd_len=8192;
  ;;

amigaos*)
  # On AmigaOS with pdksh, this test takes hours, literally.
  # So we just punt and use a minimum line length of 8192.

```



```

lt_cv_sys_max_cmd_len=8192;
;;

netbsd* | freebsd* | openbsd* | darwin* | dragonfly*)
# This has been around since 386BSD, at least. Likely further.
if test -x /sbin/sysctl; then
    lt_cv_sys_max_cmd_len='/sbin/sysctl -n kern.argmax'
elif test -x /usr/sbin/sysctl; then
    lt_cv_sys_max_cmd_len='/usr/sbin/sysctl -n kern.argmax'
else
    lt_cv_sys_max_cmd_len=65536 # usable default for all BSDs
fi
# And add a safety zone
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ 4'
lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ * 3'
;;

interix*)
# We know the value 262144 and hardcode it with a safety zone (like BSD)
lt_cv_sys_max_cmd_len=196608
;;

osf*)
# Dr. Hans Ekkehard Plesser reports seeing a kernel panic running configure
# due to this test when exec_disable_arg_limit is 1 on Tru64. It is not
# nice to cause kernel panics so lets avoid the loop below.
# First set a reasonable default.
lt_cv_sys_max_cmd_len=16384
#
if test -x /sbin/sysconfig; then
    case '/sbin/sysconfig -q proc exec_disable_arg_limit' in
        *1*) lt_cv_sys_max_cmd_len=-1 ;;
    esac
fi
;;

sco3.2v5*)
lt_cv_sys_max_cmd_len=102400
;;

sysv5* | sco5v6* | sysv4.2uw2*)
kargmax='grep ARG_MAX /etc/conf/cf.d/stune 2>/dev/null'
if test -n "$kargmax"; then
    lt_cv_sys_max_cmd_len='echo $kargmax | sed 's/.*[[ ]//''
else
    lt_cv_sys_max_cmd_len=32768
fi
;;

*)
lt_cv_sys_max_cmd_len='(getconf ARG_MAX) 2> /dev/null'

```

```

if test -n "$lt_cv_sys_max_cmd_len"; then
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ 4'
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ * 3'
else
  SHELL=${SHELL-${CONFIG_SHELL-/bin/sh}}
  while (test "X"$SHELL [$]0 --fallback-echo "X$teststring" 2>/dev/null \
    = "XX$teststring") >/dev/null 2>&1 &&
    new_result='expr "X$teststring" : ".*" 2>&1' &&
    lt_cv_sys_max_cmd_len=$new_result &&
    test $i != 17 # 1/2 MB should be enough
  do
    i='expr $i + 1'
    teststring=$teststring$teststring
  done
  teststring=
  # Add a significant safety factor because C++ compilers can tack on massive
  # amounts of additional arguments before passing them to the linker.
  # It appears as though 1/2 is a usable value.
  lt_cv_sys_max_cmd_len='expr $lt_cv_sys_max_cmd_len \ 2'
fi
;;
esac
])
if test -n $lt_cv_sys_max_cmd_len ; then
  AC_MSG_RESULT($lt_cv_sys_max_cmd_len)
else
  AC_MSG_RESULT(none)
fi
])# AC_LIBTOOL_SYS_MAX_CMD_LEN

# _LT_AC_CHECK_DLFCN
# -----
AC_DEFUN([_LT_AC_CHECK_DLFCN],
[AC_CHECK_HEADERS(dlfcn.h)dnl
])# _LT_AC_CHECK_DLFCN

# _LT_AC_TRY_DLOPEN_SELF (ACTION-IF-TRUE, ACTION-IF-TRUE-W-USCORE,
# ACTION-IF-FALSE, ACTION-IF-CROSS-COMPILING)
# -----
AC_DEFUN([_LT_AC_TRY_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "$cross_compiling" = yes; then :
  [$4]
else
  lt_dlunknown=0; lt_dlno_uscore=1; lt_dlneed_uscore=2
  lt_status=$lt_dlunknown

```

```

cat > conftest.$ac_ext <<EOF
[#line __oline__ "configure"
#include "confdefs.h"

#if HAVE_DLFCN_H
#include <dlfcn.h>
#endif

#include <stdio.h>

#ifdef RTLD_GLOBAL
# define LT_DLGLOBAL RTLD_GLOBAL
#else
# ifdef DL_GLOBAL
#  define LT_DLGLOBAL DL_GLOBAL
# else
#  define LT_DLGLOBAL 0
# endif
#endif
#endif

/* We may have to define LT_DLLAZY_OR_NOW in the command line if we
   find out it does not work in some platform. */
#ifndef LT_DLLAZY_OR_NOW
# ifdef RTLD_LAZY
#  define LT_DLLAZY_OR_NOW RTLD_LAZY
# else
#  ifdef DL_LAZY
#   define LT_DLLAZY_OR_NOW DL_LAZY
#  else
#   ifdef RTLD_NOW
#    define LT_DLLAZY_OR_NOW RTLD_NOW
#   else
#    ifdef DL_NOW
#     define LT_DLLAZY_OR_NOW DL_NOW
#    else
#     define LT_DLLAZY_OR_NOW 0
#    endif
#   endif
#  endif
# endif
#endif

#ifdef __cplusplus
extern "C" void exit (int);
#endif

void fnord() { int i=42;}
int main ()

```

```

{
void *self = dlopen (0, LT_DLGLOBAL|LT_DLLAZY_OR_NOW);
int status = $lt_dlunknown;

if (self)
{
if (dlsym (self, "fnord")) status = $lt_dlno_uscore;
else if (dlsym( self, "_fnord")) status = $lt_dlneed_uscore;
/* dlclose (self); */
}
else
puts (dlerror ());

exit (status);
}}
EOF
if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext} 2>/dev/null; then
(./conftest; exit; ) >&AS_MESSAGE_LOG_FD 2>/dev/null
lt_status=$?
case x$lt_status in
x$lt_dlno_uscore) $1 ;;
x$lt_dlneed_uscore) $2 ;;
x$lt_dlunknown|x*) $3 ;;
esac
else :
# compilation failed
$3
fi
fi
rm -fr conftest*
])# _LT_AC_TRY_DLOPEN_SELF

# AC_LIBTOOL_DLOPEN_SELF
# -----
AC_DEFUN([AC_LIBTOOL_DLOPEN_SELF],
[AC_REQUIRE([_LT_AC_CHECK_DLFCN])dnl
if test "x$enable_dlopen" != xyes; then
enable_dlopen=unknown
enable_dlopen_self=unknown
enable_dlopen_self_static=unknown
else
lt_cv_dlopen=no
lt_cv_dlopen_libs=

case $host_os in
beos*)
lt_cv_dlopen="load_add_on"

```

```

lt_cv_dlopen_libs=
lt_cv_dlopen_self=yes
;;

mingw* | pw32*)
  lt_cv_dlopen="LoadLibrary"
  lt_cv_dlopen_libs=
  ;;

cygwin*)
  lt_cv_dlopen="dlopen"
  lt_cv_dlopen_libs=
  ;;

darwin*)
# if libdl is installed we need to link against it
  AC_CHECK_LIB([dl], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],[
  lt_cv_dlopen="dyld"
  lt_cv_dlopen_libs=
  lt_cv_dlopen_self=yes
  ])
  ;;

*)
  AC_CHECK_FUNC([shl_load],
[lt_cv_dlopen="shl_load",
  [AC_CHECK_LIB([dld], [shl_load],
  [lt_cv_dlopen="shl_load" lt_cv_dlopen_libs="-ldld"],
[AC_CHECK_FUNC([dlopen],
  [lt_cv_dlopen="dlopen"],
  [AC_CHECK_LIB([dl], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-ldl"],
  [AC_CHECK_LIB([svld], [dlopen],
[lt_cv_dlopen="dlopen" lt_cv_dlopen_libs="-lsvld"],
  [AC_CHECK_LIB([dld], [dld_link],
  [lt_cv_dlopen="dld_link" lt_cv_dlopen_libs="-ldld"])
  ])
  ])
  ])
  ])
  ;;
esac

if test "x$lt_cv_dlopen" != xno; then
  enable_dlopen=yes
else

```

```

    enable_dlopen=no
fi

case $lt_cv_dlopen in
dlopen)
    save_CPPFLAGS="$CPPFLAGS"
    test "x$ac_cv_header_dlfcn_h" = xyes && CPPFLAGS="$CPPFLAGS -DHAVE_DLFCN_H"

    save_LDFLAGS="$LDFLAGS"
    wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS $export_dynamic_flag_spec\`"

    save_LIBS="$LIBS"
    LIBS="$lt_cv_dlopen_libs $LIBS"

    AC_CACHE_CHECK([whether a program can dlopen itself],
lt_cv_dlopen_self, [dnl
_LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self=yes, lt_cv_dlopen_self=yes,
    lt_cv_dlopen_self=no, lt_cv_dlopen_self=cross)
])

    if test "x$lt_cv_dlopen_self" = xyes; then
        wl=$lt_prog_compiler_wl eval LDFLAGS="\`$LDFLAGS $lt_prog_compiler_static\`"
        AC_CACHE_CHECK([whether a statically linked program can dlopen itself],
lt_cv_dlopen_self_static, [dnl
_LT_AC_TRY_DLOPEN_SELF(
    lt_cv_dlopen_self_static=yes, lt_cv_dlopen_self_static=yes,
    lt_cv_dlopen_self_static=no, lt_cv_dlopen_self_static=cross)
])
    fi
fi

CPPFLAGS="$save_CPPFLAGS"
LDFLAGS="$save_LDFLAGS"
LIBS="$save_LIBS"
;;
esac

case $lt_cv_dlopen_self in
yes|no) enable_dlopen_self=$lt_cv_dlopen_self ;;
*) enable_dlopen_self=unknown ;;
esac

case $lt_cv_dlopen_self_static in
yes|no) enable_dlopen_self_static=$lt_cv_dlopen_self_static ;;
*) enable_dlopen_self_static=unknown ;;
esac
fi
])# AC_LIBTOOL_DLOPEN_SELF

```

```

# AC_LIBTOOL_PROG_CC_C_O([TAGNAME])
# -----
# Check to see if options -c and -o are simultaneously supported by compiler
AC_DEFUN([AC_LIBTOOL_PROG_CC_C_O],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl
AC_CACHE_CHECK([if $compiler supports -c -o file.$ac_objext],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)],
[_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=no
$rm -r conftest 2>/dev/null
mkdir conftest
cd conftest
mkdir out
echo "$lt_simple_compile_test_code" > conftest.$ac_ext

lt_compiler_flag="-o out/conftest2.$ac_objext"
# Insert the option either (1) after the last *FLAGS variable, or
# (2) before a word containing "conftest.", or (3) at the end.
# Note that $ac_compile itself does not contain backslashes and begins
# with a dollar sign (not a hyphen), so the echo should work correctly.
lt_compile='echo "$ac_compile" | $SED \
-e 's:.*FLAGS}{0,1}\} :&$lt_compiler_flag ;; t\' \
-e 's: [[^ ]]*conftest\.: $lt_compiler_flag&; t\' \
-e 's:$: $lt_compiler_flag:'"
(eval echo "\"\$as_me:__oline__: $lt_compile\"" >&AS_MESSAGE_LOG_FD)
(eval "$lt_compile" 2>out/conftest.err)
ac_status=$?
cat out/conftest.err >&AS_MESSAGE_LOG_FD
echo "$as_me:__oline__: \ $? = $ac_status" >&AS_MESSAGE_LOG_FD
if (exit $ac_status) && test -s out/conftest2.$ac_objext
then
# The compiler can only warn and ignore the option if not recognized
# So say no if there are warnings
$echo "X$lt_compiler_boilerplate" | $Xsed -e '/^$/d' > out/conftest.exp
$SED '/^$/d; /^ *+/d' out/conftest.err >out/conftest.er2
if test ! -s out/conftest.er2 || diff out/conftest.exp out/conftest.er2 >/dev/null; then
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes
fi
fi
chmod u+w . 2>&AS_MESSAGE_LOG_FD
$rm conftest*
# SGI C++ compiler will create directory out/ii_files/ for
# template instantiation
test -d out/ii_files && $rm out/ii_files/* && rmdir out/ii_files
$rm out/* && rmdir out
cd ..

```

```

    rmdir conftest
    $rm conftest*
)
])# AC_LIBTOOL_PROG_CC_C_O

# AC_LIBTOOL_SYS_HARD_LINK_LOCKS([TAGNAME])
# -----
# Check to see if we can do hard links to lock some files if needed
AC_DEFUN([AC_LIBTOOL_SYS_HARD_LINK_LOCKS],
[AC_REQUIRE([_LT_AC_LOCK])dnl

hard_links="nottested"
if test "$_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)" = no && test "$need_locks" != no; then
  # do not overwrite the value of need_locks provided by the user
  AC_MSG_CHECKING([if we can lock with hard links])
  hard_links=yes
  $rm conftest*
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  touch conftest.a
  ln conftest.a conftest.b 2>&5 || hard_links=no
  ln conftest.a conftest.b 2>/dev/null && hard_links=no
  AC_MSG_RESULT([$hard_links])
  if test "$hard_links" = no; then
    AC_MSG_WARN(['$CC' does not support '-c -o', so 'make -j' may be unsafe])
    need_locks=warn
  fi
else
  need_locks=no
fi
])# AC_LIBTOOL_SYS_HARD_LINK_LOCKS

# AC_LIBTOOL_OBJDIR
# -----
AC_DEFUN([AC_LIBTOOL_OBJDIR],
[AC_CACHE_CHECK([for objdir], [lt_cv_objdir],
[rm -f .libs 2>/dev/null
mkdir .libs 2>/dev/null
if test -d .libs; then
  lt_cv_objdir=.libs
else
  # MS-DOS does not allow filenames that begin with a dot.
  lt_cv_objdir=_libs
fi
rmdir .libs 2>/dev/null])
objdir=$lt_cv_objdir
])# AC_LIBTOOL_OBJDIR

```



```

# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH([TAGNAME])
# -----
# Check hardcoding attributes.
AC_DEFUN([AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH],
[AC_MSG_CHECKING([how to hardcode library paths into programs])
_LT_AC_TAGVAR(hardcode_action, $1)=
if test -n "$_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)" || \
test -n "$_LT_AC_TAGVAR(runpath_var, $1)" || \
test "X$_LT_AC_TAGVAR(hardcode_automatic, $1)" = "Xyes" ; then

# We can hardcode non-existent directories.
if test "$_LT_AC_TAGVAR(hardcode_direct, $1)" != no &&
# If the only mechanism to avoid hardcoding is shlibpath_var, we
# have to relink, otherwise we might link with an installed library
# when we should be linking with a yet-to-be-installed one
## test "$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)" != no &&
test "$_LT_AC_TAGVAR(hardcode_minus_L, $1)" != no; then
# Linking always hardcodes the temporary library directory.
_LT_AC_TAGVAR(hardcode_action, $1)=relink
else
# We can link without hardcoding, and we can hardcode nonexisting dirs.
_LT_AC_TAGVAR(hardcode_action, $1)=immediate
fi
else
# We cannot hardcode anything, or else we can only hardcode existing
# directories.
_LT_AC_TAGVAR(hardcode_action, $1)=unsupported
fi
AC_MSG_RESULT([$_LT_AC_TAGVAR(hardcode_action, $1)])

if test "$_LT_AC_TAGVAR(hardcode_action, $1)" = relink; then
# Fast installation is not supported
enable_fast_install=no
elif test "$shlibpath_overrides_runpath" = yes ||
test "$enable_shared" = no; then
# Fast installation is not necessary
enable_fast_install=needless
fi
])# AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH

# AC_LIBTOOL_SYS_LIB_STRIP
# -----
AC_DEFUN([AC_LIBTOOL_SYS_LIB_STRIP],
[striplib=
old_striplib=

```

```

AC_MSG_CHECKING([whether stripping libraries is possible])
if test -n "$STRIP" && $STRIP -V 2>&1 | grep "GNU strip" >/dev/null; then
  test -z "$old_striplib" && old_striplib="$STRIP --strip-debug"
  test -z "$striplib" && striplib="$STRIP --strip-unneeded"
  AC_MSG_RESULT([yes])
else
# FIXME - insert some real tests, host_os isn't really good enough
case $host_os in
  darwin*)
    if test -n "$STRIP" ; then
      striplib="$STRIP -x"
      old_striplib="$STRIP -S"
      AC_MSG_RESULT([yes])
    else
      AC_MSG_RESULT([no])
    fi
  ;;
  *)
    AC_MSG_RESULT([no])
  ;;
esac
fi
])# AC_LIBTOOL_SYS_LIB_STRIP

```

```

# AC_LIBTOOL_SYS_DYNAMIC_LINKER
# -----
# PORTME Fill in your ld.so characteristics
AC_DEFUN([AC_LIBTOOL_SYS_DYNAMIC_LINKER],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([dynamic linker characteristics])
library_names_spec=
libname_spec='lib$name'
soname_spec=
shrext_cmds=".so"
postinstall_cmds=
postuninstall_cmds=
finish_cmds=
finish_eval=
shlibpath_var=
shlibpath_overrides_runpath=unknown
version_type=none
dynamic_linker="$host_os ld.so"
sys_lib_dlsearch_path_spec="/lib /usr/lib"
m4_if($1,[],[
if test "$GCC" = yes; then
case $host_os in
  darwin*) lt_awk_arg="/^libraries:./LR/" ;;

```

```

*) lt_awk_arg="/^libraries:/" ;;
esac
lt_search_path_spec='$CC -print-search-dirs | awk $lt_awk_arg | $SED -e "s/^libraries:/" -e "s=/,/g"'
if echo "$lt_search_path_spec" | grep ';' >/dev/null; then
  # if the path contains ";" then we assume it to be the separator
  # otherwise default to the standard path separator (i.e. ":") - it is
  # assumed that no part of a normal pathname contains ";" but that should
  # okay in the real world where ";" in dirpaths is itself problematic.
  lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e 's;/ /g"'
else
  lt_search_path_spec='echo "$lt_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"'
fi
# Ok, now we have the path, separated by spaces, we can step through it
# and add multilib dir if necessary.
lt_tmp_lt_search_path_spec=
lt_multi_os_dir='$CC $CPPFLAGS $CFLAGS $LDLDFLAGS -print-multi-os-directory 2>/dev/null'
for lt_sys_path in $lt_search_path_spec; do
  if test -d "$lt_sys_path/$lt_multi_os_dir"; then
    lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path/$lt_multi_os_dir"
  else
    test -d "$lt_sys_path" && \
lt_tmp_lt_search_path_spec="$lt_tmp_lt_search_path_spec $lt_sys_path"
  fi
done
lt_search_path_spec='echo $lt_tmp_lt_search_path_spec | awk '
BEGIN {RS=" "; FS="/\n";} {
  lt_foo="";
  lt_count=0;
  for (lt_i = NF; lt_i > 0; lt_i--) {
    if ($lt_i != "" && $lt_i != ".") {
      if ($lt_i == "..") {
        lt_count++;
      } else {
        if (lt_count == 0) {
          lt_foo="/" $lt_i lt_foo;
        } else {
          lt_count--;
        }
      }
    }
  }
  if (lt_foo != "") { lt_freq[[lt_foo]]++; }
  if (lt_freq[[lt_foo]] == 1) { print lt_foo; }
}'
sys_lib_search_path_spec='echo $lt_search_path_spec'
else
  sys_lib_search_path_spec="/lib /usr/lib /usr/local/lib"
fi])

```

```

need_lib_prefix=unknown
hardcode_into_libs=no

# when you set need_version to no, make sure it does not cause -set_version
# flags to be left without arguments
need_version=unknown

case $host_os in
aix3*)
version_type=linux
library_names_spec='${libname}${release}${shared_ext}$versuffix $libname.a'
shlibpath_var=LIBPATH

# AIX 3 has no versioning support, so we append a major version to the name.
soname_spec='${libname}${release}${shared_ext}$major'
;;

aix[[4-9]]*)
version_type=linux
need_lib_prefix=no
need_version=no
hardcode_into_libs=yes
if test "$host_cpu" = ia64; then
# AIX 5 supports IA64
library_names_spec='${libname}${release}${shared_ext}$major ${libname}${release}${shared_ext}$versuffix
$libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
else
# With GCC up to 2.95.x, collect2 would create an import file
# for dependence libraries. The import file would start with
# the line '#!.'. This would cause the generated library to
# depend on '.', always an invalid library. This was fixed in
# development snapshots of GCC prior to 3.0.
case $host_os in
aix4 | aix4.01 | aix4.01.*)
if { echo '#if __GNUC__ > 2 || (__GNUC__ == 2 && __GNUC_MINOR__ >= 97)'
echo 'yes'
echo '#endif'; } | ${CC} -E - | grep yes > /dev/null; then
:
else
can_build_shared=no
fi
;;
esac
# AIX (on Power*) has no versioning support, so currently we can not hardcode correct
# soname into executable. Probably we can add versioning support to
# collect2, so additional links can be useful in future.
if test "$aix_use_runtimelinking" = yes; then

```

```

# If using run time linking (on AIX 4.2 or later) use lib<name>.so
# instead of lib<name>.a to let people know that these are not
# typical AIX shared libraries.
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
else
# We preserve .a as extension for shared libraries through AIX4.2
# and later when we are not doing run time linking.
library_names_spec='${libname}${release}.a $libname.a'
soname_spec='${libname}${release}${shared_ext}$major'
fi
shlibpath_var=LIBPATH
fi
;;

amigaos*)
library_names_spec='$libname.ixlibrary $libname.a'
# Create ${libname}_ixlibrary.a entries in /sys/libs.
finish_eval='for lib in `ls $libdir/*.ixlibrary 2>/dev/null`; do libname=`$echo "$Xlib" | $Xsed -e
"s%^.*^\([^\)]*\)\.ixlibrary%\1%"`; test $rm /sys/libs/${libname}_ixlibrary.a; $show "cd /sys/libs && $LN_S
$lib ${libname}_ixlibrary.a"; cd /sys/libs && $LN_S $lib ${libname}_ixlibrary.a || exit 1; done'
;;

beos*)
library_names_spec='${libname}${shared_ext}'
dynamic_linker="$host_os ld.so"
shlibpath_var=LIBRARY_PATH
;;

bsdi[[45]]*)
version_type=linux
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="$PATH:/sbin" ldconfig $libdir'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_search_path_spec="/shlib /usr/lib /usr/X11/lib /usr/contrib/lib /lib /usr/local/lib"
sys_lib_dlsearch_path_spec="/shlib /usr/lib /usr/local/lib"
# the default ld.so.conf also contains /usr/contrib/lib and
# /usr/X11R6/lib (/usr/X11 is a link to /usr/X11R6), but let us allow
# libtool to hard-code these into programs
;;

cygwin* | mingw* | pw32*)
version_type=windows
shext_cmds=".dll"
need_version=no

```

```

need_lib_prefix=no

case $GCC,$host_os in
yes,cygwin* | yes,mingw* | yes,pw32*)
    library_names_spec='$libname.dll.a'
    # DLL is installed to $(libdir)/../bin by postinstall_cmds
    postinstall_cmds='base_file='basename \${ file} '~
        dlpath='$SHELL 2>&1 -c \". $dir/\"'\${base_file}\"'i;echo \${dlname}\"'~
        dldir=$destdir/'dirname \${dlpath}'~
        test -d \${dldir} || mkdir -p \${dldir}~
        $install_prog $dir/\${dlname} \${dldir}/\${dlname}~
        chmod a+x \${dldir}/\${dlname}'
    postuninstall_cmds='dldll='$SHELL 2>&1 -c \". $file; echo \${dlname}\"'~
        dlpath=$dir/\${dldll}~
        $rm \${dlpath}'
    shlibpath_overrides_runpath=yes

case $host_os in
cygwin*)
    # Cygwin DLLs use 'cyg' prefix rather than 'lib'
    soname_spec="echo \${libname} | sed -e 's/^lib/cyg/'"echo \${release} | $SED -e 's/[.]/-
/g"\${versuffix}\${shared_ext}'
    sys_lib_search_path_spec="/usr/lib /lib/w32api /lib /usr/local/lib"
    ;;
mingw*)
    # MinGW DLLs use traditional 'lib' prefix
    soname_spec='\${libname}'echo \${release} | $SED -e 's/[.]/-g"\${versuffix}\${shared_ext}'
    sys_lib_search_path_spec='$CC -print-search-dirs | grep "^libraries:" | $SED -e "s/^libraries:/" -e "s,=,/,g"'
    if echo "$sys_lib_search_path_spec" | [grep '[c-zA-Z]:' >/dev/null]; then
        # It is most probably a Windows format PATH printed by
        # mingw gcc, but we are running on Cygwin. Gcc prints its search
        # path with ; separators, and with drive letters. We can handle the
        # drive letters (cygwin fileutils understands them), so leave them,
        # especially as we might pass files found there to a mingw objdump,
        # which wouldn't understand a cygwinified path. Ahh.
        sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | $SED -e 's;/ /g'
    else
        sys_lib_search_path_spec='echo "$sys_lib_search_path_spec" | $SED -e "s/$PATH_SEPARATOR/ /g"'
    fi
    ;;
pw32*)
    # pw32 DLLs use 'pw' prefix rather than 'lib'
    library_names_spec="echo \${libname} | sed -e 's/^lib/pw/'"echo \${release} | $SED -e 's/[.]/-
/g"\${versuffix}\${shared_ext}'
    ;;
esac
;;

```

```

*)
  library_names_spec='${libname}'echo ${release} | $SED -e 's/[./]/-g"${versuffix}"${shared_ext} $libname.lib'
  ;;
esac
dynamic_linker='Win32 ld.exe'
# FIXME: first we should search . and the directory the executable is in
shlibpath_var=PATH
;;

darwin* | rhapsody*)
dynamic_linker="$host_os dyld"
version_type=darwin
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${versuffix}$shared_ext ${libname}${release}${major}$shared_ext
${libname}$shared_ext'
soname_spec='${libname}${release}${major}$shared_ext'
shlibpath_overrides_runpath=yes
shlibpath_var=DYLD_LIBRARY_PATH
shrext_cmds="test .module = .yes && echo .so || echo .dylib"
m4_if([$1], [], [
sys_lib_search_path_spec="$sys_lib_search_path_spec /usr/local/lib"])
sys_lib_dlsearch_path_spec='/usr/local/lib /lib /usr/lib'
;;

dgux*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname$shared_ext'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

freebsd1*)
dynamic_linker=no
;;

freebsd* | dragonfly*)
# DragonFly does not have aout. When/if they implement a new
# versioning mechanism, adjust this.
if test -x /usr/bin/objformat; then
  objformat='/usr/bin/objformat'
else
  case $host_os in
    freebsd[[123]]*) objformat=aout ;;
    *) objformat=elf ;;
  esac
fi

```

```

    esac
fi
version_type=freebsd-$objformat
case $version_type in
    freebsd-elf*)
        library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}
$libname${shared_ext}'
        need_version=no
        need_lib_prefix=no
        ;;
    freebsd-*)
        library_names_spec='${libname}${release}${shared_ext}$versuffix $libname${shared_ext}$versuffix'
        need_version=yes
        ;;
    esac
shlibpath_var=LD_LIBRARY_PATH
case $host_os in
    freebsd2*)
        shlibpath_overrides_runpath=yes
        ;;
    freebsd3.[[01]]* | freebsdelf3.[[01]]*)
        shlibpath_overrides_runpath=yes
        hardcode_into_libs=yes
        ;;
    freebsd3.[[2-9]]* | freebsdelf3.[[2-9]]* | \
    freebsd4.[[0-5]] | freebsdelf4.[[0-5]] | freebsd4.1.1 | freebsdelf4.1.1)
        shlibpath_overrides_runpath=no
        hardcode_into_libs=yes
        ;;
    *) # from 4.6 on, and DragonFly
        shlibpath_overrides_runpath=yes
        hardcode_into_libs=yes
        ;;
    esac
;;

gnu*)
    version_type=linux
    need_lib_prefix=no
    need_version=no
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}${major}
${libname}${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    hardcode_into_libs=yes
    ;;

hpux9* | hpux10* | hpux11*)

```



```

# Give a soname corresponding to the major version so that dld.sl refuses to
# link against other versions.
version_type=sunos
need_lib_prefix=no
need_version=no
case $host_cpu in
ia64*)
    shrext_cmds='.so'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.so"
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    if test "X$HPUX_IA64_MODE" = X32; then
        sys_lib_search_path_spec="/usr/lib/hpux32 /usr/local/lib/hpux32 /usr/local/lib"
    else
        sys_lib_search_path_spec="/usr/lib/hpux64 /usr/local/lib/hpux64"
    fi
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
hppa*64*)
    shrext_cmds='.sl'
    hardcode_into_libs=yes
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=LD_LIBRARY_PATH # How should we handle SHLIB_PATH
    shlibpath_overrides_runpath=yes # Unless +noenvvar is specified.
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    sys_lib_search_path_spec="/usr/lib/pa20_64 /usr/ccs/lib/pa20_64"
    sys_lib_dlsearch_path_spec=$sys_lib_search_path_spec
    ;;
*)
    shrext_cmds='.sl'
    dynamic_linker="$host_os dld.sl"
    shlibpath_var=SHLIB_PATH
    shlibpath_overrides_runpath=no # +s is required to enable SHLIB_PATH
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    ;;
esac
# HP-UX runs *really* slowly unless shared libraries are mode 555.
postinstall_cmds='chmod 555 $lib'
;;

```

```

interix[[3-9]]*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
dynamic_linker='Interix 3.x ld.so.1 (PE, like ELF)'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
hardcode_into_libs=yes
;;

irix5* | irix6* | nonstopux*)
case $host_os in
  nonstopux*) version_type=nonstopux ;;
  *)
if test "$lt_cv_prog_gnu_ld" = yes; then
  version_type=linux
else
  version_type=irix
fi ;;
esac
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${release}${shared_ext} $libname${shared_ext}'
case $host_os in
  irix5* | nonstopux*)
  libsuff= shlibsuff=
  ;;
  *)
  case $LD in # libtool.m4 will add one of these switches to LD
    *-32|*-32 ".*-melf32bsmip|*-melf32bsmip ")
      libsuff= shlibsuff= libmagic=32-bit;;
    *-n32|*-n32 ".*-melf32bmipn32|*-melf32bmipn32 ")
      libsuff=32 shlibsuff=N32 libmagic=N32;;
    *-64|*-64 ".*-melf64bmip|*-melf64bmip ")
      libsuff=64 shlibsuff=64 libmagic=64-bit;;
    *) libsuff= shlibsuff= libmagic=never-match;;
  esac
  ;;
esac
shlibpath_var=LD_LIBRARY${shlibsuff}_PATH
shlibpath_overrides_runpath=no
sys_lib_search_path_spec="/usr/lib${shlibsuff} /lib${shlibsuff} /usr/local/lib${shlibsuff}"
sys_lib_dlsearch_path_spec="/usr/lib${shlibsuff} /lib${shlibsuff}"

```

```

hardcode_into_libs=yes
;;

# No shared lib support for Linux oldld, aout, or coff.
linux*oldld* | linux*aout* | linux*coff*)
dynamic_linker=no
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
finish_cmds='PATH="\$PATH:/sbin" ldconfig -n $libdir'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=no
# This implies no fast_install, which is unacceptable.
# Some rework will be needed to allow for fast_install
# before this can be enabled.
hardcode_into_libs=yes

# Append ld.so.conf contents to the search path
if test -f /etc/ld.so.conf; then
  lt_ld_extra='awk '/^include / { system(sprintf("cd /etc; cat %s 2>/dev/null", \[$]2)); skip = 1; } { if (!skip) print
\[$]0; skip = 0; }' < /etc/ld.so.conf | $SED -e 's/#.*//;^[ ]*hwcaps[ ]/d;s/[., ]/ /g;s/[^=]*$//;s/[^= ]* / /g;/^$/d' | tr '\n' '
'
  sys_lib_dlsearch_path_spec="/lib /usr/lib $lt_ld_extra"
fi

# We used to test for /lib/ld.so.1 and disable shared libraries on
# powerpc, because MkLinux only supported shared libraries with the
# GNU dynamic linker. Since this was broken with cross compilers,
# most powerpc-linux boxes support dynamic linking these days and
# people can always --disable-shared, the test was removed, and we
# assume the GNU/Linux dynamic linker is in use.
dynamic_linker='GNU/Linux ld.so'
;;

netbsd*)
version_type=sunos
need_lib_prefix=no
need_version=no
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
  finish_cmds='PATH="\$PATH:/sbin" ldconfig -m $libdir'

```

```

dynamic_linker='NetBSD (a.out) ld.so'
else
  library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
${libname}${shared_ext}'
  soname_spec='${libname}${release}${shared_ext}$major'
  dynamic_linker='NetBSD ld.elf_so'
fi
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
;;

newsos6)
version_type=linux
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
;;

nto-qnx*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
;;

openbsd*)
version_type=sunos
sys_lib_dlsearch_path_spec="/usr/lib"
need_lib_prefix=no
# Some older versions of OpenBSD (3.3 at least) *do* need versioned libs.
case $host_os in
  openbsd3.3 | openbsd3.3.*) need_version=yes ;;
  *) need_version=no ;;
esac
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
finish_cmds='PATH="$PATH:/sbin" ldconfig -m $libdir'
shlibpath_var=LD_LIBRARY_PATH
if test -z "'echo __ELF__ | $CC -E - | grep __ELF__'" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
  case $host_os in
    openbsd2.[[89]] | openbsd2.[[89]].*)
      shlibpath_overrides_runpath=no
    ;;
  ;;

```

```

*)
shlibpath_overrides_runpath=yes
;;
    esac
else
    shlibpath_overrides_runpath=yes
fi
;;

os2*)
libname_spec='$name'
shrext_cmds=".dll"
need_lib_prefix=no
library_names_spec='$libname${shared_ext} $libname.a'
dynamic_linker='OS/2 ld.exe'
shlibpath_var=LIBPATH
;;

osf3* | osf4* | osf5*)
version_type=osf
need_lib_prefix=no
need_version=no
soname_spec='${libname}${release}${shared_ext}$major'
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
shlibpath_var=LD_LIBRARY_PATH
sys_lib_search_path_spec="/usr/shlib /usr/ccs/lib /usr/lib/cmplrs/cc /usr/lib /usr/local/lib /var/shlib"
sys_lib_dlsearch_path_spec="$sys_lib_search_path_spec"
;;

rdos*)
dynamic_linker=no
;;

solaris*)
version_type=linux
need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
shlibpath_overrides_runpath=yes
hardcode_into_libs=yes
# ldd complains unless libraries are executable
postinstall_cmds='chmod +x $lib'
;;

```

```

sunos4*)
    version_type=sunos
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${shared_ext}$versuffix'
    finish_cmds='PATH="\$PATH:/usr/etc" ldconfig $libdir'
    shlibpath_var=LD_LIBRARY_PATH
    shlibpath_overrides_runpath=yes
    if test "$with_gnu_ld" = yes; then
        need_lib_prefix=no
    fi
    need_version=yes
    ;;

sysv4 | sysv4.3*)
    version_type=linux
    library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
    soname_spec='${libname}${release}${shared_ext}$major'
    shlibpath_var=LD_LIBRARY_PATH
    case $host_vendor in
        sni)
            shlibpath_overrides_runpath=no
            need_lib_prefix=no
            export_dynamic_flag_spec='${wl}-Blargedynsym'
            runpath_var=LD_RUN_PATH
            ;;
        siemens)
            need_lib_prefix=no
            ;;
        motorola)
            need_lib_prefix=no
            need_version=no
            shlibpath_overrides_runpath=no
            sys_lib_search_path_spec='/lib /usr/lib /usr/ccs/lib'
            ;;
    esac
    ;;

sysv4*MP*)
    if test -d /usr/nec ;then
        version_type=linux
        library_names_spec='$libname${shared_ext}.$versuffix $libname${shared_ext}.$major $libname${shared_ext}'
        soname_spec='$libname${shared_ext}.$major'
        shlibpath_var=LD_LIBRARY_PATH
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
    version_type=freebsd-elf

```

```

need_lib_prefix=no
need_version=no
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
hardcode_into_libs=yes
if test "$with_gnu_ld" = yes; then
  sys_lib_search_path_spec='/usr/local/lib /usr/gnu/lib /usr/ccs/lib /usr/lib /lib'
  shlibpath_overrides_runpath=no
else
  sys_lib_search_path_spec='/usr/ccs/lib /usr/lib'
  shlibpath_overrides_runpath=yes
case $host_os in
sco3.2v5*)
  sys_lib_search_path_spec="$sys_lib_search_path_spec /lib"
;;
esac
fi
sys_lib_dlsearch_path_spec='/usr/lib'
;;

uts4*)
version_type=linux
library_names_spec='${libname}${release}${shared_ext}$versuffix ${libname}${release}${shared_ext}$major
$libname${shared_ext}'
soname_spec='${libname}${release}${shared_ext}$major'
shlibpath_var=LD_LIBRARY_PATH
;;

*)
dynamic_linker=no
;;
esac
AC_MSG_RESULT([$dynamic_linker])
test "$dynamic_linker" = no && can_build_shared=no

AC_CACHE_VAL([lt_cv_sys_lib_search_path_spec],
[lt_cv_sys_lib_search_path_spec="$sys_lib_search_path_spec"])
sys_lib_search_path_spec="$lt_cv_sys_lib_search_path_spec"
AC_CACHE_VAL([lt_cv_sys_lib_dlsearch_path_spec],
[lt_cv_sys_lib_dlsearch_path_spec="$sys_lib_dlsearch_path_spec"])
sys_lib_dlsearch_path_spec="$lt_cv_sys_lib_dlsearch_path_spec"

variables_saved_for_relink="PATH $shlibpath_var $runpath_var"
if test "$GCC" = yes; then
  variables_saved_for_relink="$variables_saved_for_relink GCC_EXEC_PREFIX COMPILER_PATH
LIBRARY_PATH"

```

```

fi
)]# AC_LIBTOOL_SYS_DYNAMIC_LINKER

# _LT_AC_TAGCONFIG
# -----
AC_DEFUN([_LT_AC_TAGCONFIG],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_ARG_WITH([tags],
  [AC_HELP_STRING([--with-tags@<:@=TAGS@:>@],
    [include additional configurations @<:@automatic@:>@]),
  [tagnames="$withval"])

if test -f "$ltmain" && test -n "$tagnames"; then
if test ! -f "${ofile}"; then
  AC_MSG_WARN([output file '$ofile' does not exist])
fi

if test -z "$LTCC"; then
  eval "$SHELL ${ofile} --config | grep '^LTCC='"
  if test -z "$LTCC"; then
    AC_MSG_WARN([output file '$ofile' does not look like a libtool script])
  else
    AC_MSG_WARN([using 'LTCC=$LTCC', extracted from '$ofile'])
  fi
fi

if test -z "$LTCFLAGS"; then
  eval "$SHELL ${ofile} --config | grep '^LTCFLAGS='"
fi

# Extract list of available tagged configurations in $ofile.
# Note that this assumes the entire list is on one line.
available_tags='grep "^available_tags=" "${ofile}" | $SED -e 's/available_tags=(.*)/1/' -e 's/^//g'

lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
for tagname in $tagnames; do
  IFS="$lt_save_ifs"
  # Check whether tagname contains only valid characters
  case "$echo "X$tagname" | $Xsed -e 's:[-
_ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890,/]::g" in
  ""))
  *) AC_MSG_ERROR([invalid tag name: $tagname])
  ;;
esac

if grep "^# ### BEGIN LIBTOOL TAG CONFIG: $tagname$" < "${ofile}" > /dev/null
then
  AC_MSG_ERROR([tag name \"$tagname\" already exists])

```



```

fi

# Update the list of available tags.
if test -n "$tagname"; then
    echo appending configuration tag \"$tagname\" to $ofile

    case $tagname in
        CXX)
if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
    ((test "X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
    (test "X$CXX" != "Xg++"))) ; then
        AC_LIBTOOL_LANG_CXX_CONFIG
    else
        tagname=""
    fi
    ;;

        F77)
if test -n "$F77" && test "X$F77" != "Xno"; then
        AC_LIBTOOL_LANG_F77_CONFIG
    else
        tagname=""
    fi
    ;;

        GCJ)
if test -n "$GCJ" && test "X$GCJ" != "Xno"; then
        AC_LIBTOOL_LANG_GCJ_CONFIG
    else
        tagname=""
    fi
    ;;

        RC)
        AC_LIBTOOL_LANG_RC_CONFIG
    ;;

        *)
        AC_MSG_ERROR([Unsupported tag name: $tagname])
    ;;
    esac

    # Append the new tag name to the list of available tags.
    if test -n "$tagname" ; then
        available_tags="$available_tags $tagname"
    fi
fi
done

```

```

IFS="$lt_save_ifs"

# Now substitute the updated list of available tags.
if eval "sed -e 's/^available_tags=.*\$/available_tags=\"$available_tags\"/' \"$ofile\" > \"${ofile}T\""; then
  mv "${ofile}T" "$ofile"
  chmod +x "$ofile"
else
  rm -f "${ofile}T"
  AC_MSG_ERROR([unable to update list of available tagged configurations.])
fi
fi
])# _LT_AC_TAGCONFIG

# AC_LIBTOOL_DLOPEN
# -----
# enable checks for dlopen support
AC_DEFUN([AC_LIBTOOL_DLOPEN],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])
])# AC_LIBTOOL_DLOPEN

# AC_LIBTOOL_WIN32_DLL
# -----
# declare package support for building win32 DLLs
AC_DEFUN([AC_LIBTOOL_WIN32_DLL],
[AC_BEFORE([$0], [AC_LIBTOOL_SETUP])
])# AC_LIBTOOL_WIN32_DLL

# AC_ENABLE_SHARED([DEFAULT])
# -----
# implement the --enable-shared flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_SHARED],
[define([AC_ENABLE_SHARED_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([shared],
  [AC_HELP_STRING([--enable-shared@<:@=PKGS@:>@],
    [build shared libraries @<:@default=]AC_ENABLE_SHARED_DEFAULT[@:>@]),
  [p=${PACKAGE-default}
  case $enableval in
  yes) enable_shared=yes ;;
  no) enable_shared=no ;;
  *)
  enable_shared=no

  # Look at the argument we got. We use all the common list separators.
  lt_save_ifs="$IFS"; IFS="${IFS}$PATH_SEPARATOR,"
  for pkg in $enableval; do

```

```

IFS="$lt_save_ifs"
if test "X$pkg" = "X$p"; then
    enable_shared=yes
fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_shared=]AC_ENABLE_SHARED_DEFAULT)
])# AC_ENABLE_SHARED

# AC_DISABLE_SHARED
# -----
# set the default shared flag to --disable-shared
AC_DEFUN([AC_DISABLE_SHARED],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_SHARED(no)
])# AC_DISABLE_SHARED

# AC_ENABLE_STATIC([DEFAULT])
# -----
# implement the --enable-static flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_STATIC],
[define([AC_ENABLE_STATIC_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([static],
    [AC_HELP_STRING([--enable-static@<:@=PKGS@:>@],
    [build static libraries @<:@default=]AC_ENABLE_STATIC_DEFAULT[@:>@]),
    [p=${PACKAGE-default}
    case $enableval in
    yes) enable_static=yes ;;
    no) enable_static=no ;;
    *)
        enable_static=no
        # Look at the argument we got. We use all the common list separators.
        lt_save_ifs="$IFS"; IFS="{IFS}$PATH_SEPARATOR,"
        for pkg in $enableval; do
IFS="$lt_save_ifs"
if test "X$pkg" = "X$p"; then
    enable_static=yes
fi
done
IFS="$lt_save_ifs"
;;
esac],
[enable_static=]AC_ENABLE_STATIC_DEFAULT)

```

```

])# AC_ENABLE_STATIC

# AC_DISABLE_STATIC
# -----
# set the default static flag to --disable-static
AC_DEFUN([AC_DISABLE_STATIC],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_STATIC(no)
])# AC_DISABLE_STATIC

# AC_ENABLE_FAST_INSTALL([DEFAULT])
# -----
# implement the --enable-fast-install flag
# DEFAULT is either 'yes' or 'no'. If omitted, it defaults to 'yes'.
AC_DEFUN([AC_ENABLE_FAST_INSTALL],
[define([AC_ENABLE_FAST_INSTALL_DEFAULT], ifelse($1, no, no, yes))dnl
AC_ARG_ENABLE([fast-install],
  [AC_HELP_STRING([--enable-fast-install@<:@=PKGS@:>@],
  [optimize for fast installation @<:@default=]AC_ENABLE_FAST_INSTALL_DEFAULT[@:>@]),
  [p=${PACKAGE-default}
  case $enableval in
  yes) enable_fast_install=yes ;;
  no) enable_fast_install=no ;;
  *)
  enable_fast_install=no
  # Look at the argument we got. We use all the common list separators.
  lt_save_ifs="$IFS"; IFS="{IFS}$PATH_SEPARATOR,"
  for pkg in $enableval; do
  IFS="$lt_save_ifs"
  if test "X$pkg" = "X$p"; then
  enable_fast_install=yes
  fi
  done
  IFS="$lt_save_ifs"
  ;;
  esac],
  [enable_fast_install=]AC_ENABLE_FAST_INSTALL_DEFAULT)
])# AC_ENABLE_FAST_INSTALL

# AC_DISABLE_FAST_INSTALL
# -----
# set the default to --disable-fast-install
AC_DEFUN([AC_DISABLE_FAST_INSTALL],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_ENABLE_FAST_INSTALL(no)

```

```

])# AC_DISABLE_FAST_INSTALL

# AC_LIBTOOL_PICMODE([MODE])
# -----
# implement the --with-pic flag
# MODE is either 'yes' or 'no'. If omitted, it defaults to 'both'.
AC_DEFUN([AC_LIBTOOL_PICMODE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
pic_mode=ifelse($#,1,$1,default)
])# AC_LIBTOOL_PICMODE

# AC_PROG_EGREP
# -----
# This is predefined starting with Autoconf 2.54, so this conditional
# definition can be removed once we require Autoconf 2.54 or later.
m4_ifndef([AC_PROG_EGREP], [AC_DEFUN([AC_PROG_EGREP],
[AC_CACHE_CHECK([for egrep], [ac_cv_prog_egrep],
[if echo a | (grep -E '(a|b)') >/dev/null 2>&1
then ac_cv_prog_egrep='grep -E'
else ac_cv_prog_egrep='egrep'
fi])
EGREP=$ac_cv_prog_egrep
AC_SUBST([EGREP])
]))

# AC_PATH_TOOL_PREFIX
# -----
# find a file program which can recognize shared library
AC_DEFUN([AC_PATH_TOOL_PREFIX],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_MSG_CHECKING([for $1])
AC_CACHE_VAL([lt_cv_path_MAGIC_CMD],
[case $MAGIC_CMD in
[[\V*] | ?:[\V]*)
lt_cv_path_MAGIC_CMD="$MAGIC_CMD" # Let the user override the test with a path.
;;
*)
lt_save_MAGIC_CMD="$MAGIC_CMD"
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
dnl $ac_dummy forces splitting on constant user-supplied paths.
dnl POSIX.2 word splitting is done only on the output of word expansions,
dnl not every word. This closes a longstanding sh security hole.
ac_dummy="ifelse([$2], , $PATH, [$2])"
for ac_dir in $ac_dummy; do
IFS="$lt_save_ifs"

```

```

test -z "$ac_dir" && ac_dir=.
if test -f $ac_dir/$1; then
  lt_cv_path_MAGIC_CMD="$ac_dir/$1"
  if test -n "$file_magic_test_file"; then
case $deplibs_check_method in
"file_magic ")
  file_magic_regex='expr "$deplibs_check_method" : "file_magic \\.*)"
  MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if eval $file_magic_cmd \$file_magic_test_file 2> /dev/null |
  $EGREP "$file_magic_regex" > /dev/null; then
  :
else
  cat <<EOF 1>&2

```

```

*** Warning: the command libtool uses to detect shared libraries,
*** $file_magic_cmd, produces output that libtool cannot recognize.
*** The result is that libtool may fail to recognize shared libraries
*** as such. This will affect the creation of libtool libraries that
*** depend on shared libraries, but programs linked with such libtool
*** libraries will work regardless of this problem. Nevertheless, you
*** may want to report the problem to your system manager and/or to
*** bug-libtool@gnu.org

```

```

EOF
  fi ;;
esac
  fi
  break
fi
done
IFS="$lt_save_ifs"
MAGIC_CMD="$lt_save_MAGIC_CMD"
;;
esac])
MAGIC_CMD="$lt_cv_path_MAGIC_CMD"
if test -n "$MAGIC_CMD"; then
  AC_MSG_RESULT($MAGIC_CMD)
else
  AC_MSG_RESULT(no)
fi
])# AC_PATH_TOOL_PREFIX

# AC_PATH_MAGIC
# -----
# find a file program which can recognize a shared library
AC_DEFUN([AC_PATH_MAGIC],
[AC_PATH_TOOL_PREFIX(${ac_tool_prefix} file, /usr/bin$PATH_SEPARATOR$PATH)

```

```

if test -z "$lt_cv_path_MAGIC_CMD"; then
if test -n "$ac_tool_prefix"; then
  AC_PATH_TOOL_PREFIX(file, /usr/bin$PATH_SEPARATOR$PATH)
else
  MAGIC_CMD=:
fi
fi
])# AC_PATH_MAGIC

```

```

# AC_PROG_LD
# -----
# find the pathname to the GNU or non-GNU linker
AC_DEFUN([AC_PROG_LD],
[AC_ARG_WITH([gnu-ld],
  [AC_HELP_STRING([--with-gnu-ld],
  [assume the C compiler uses GNU ld @<:@default=no@:>@]),
  [test "$withval" = no || with_gnu_ld=yes],
  [with_gnu_ld=no])
AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_REQUIRE([AC_PROG_CC])dnl
AC_REQUIRE([AC_CANONICAL_HOST])dnl
AC_REQUIRE([AC_CANONICAL_BUILD])dnl
ac_prog=ld
if test "$GCC" = yes; then
  # Check if gcc -print-prog-name=ld gives a path.
  AC_MSG_CHECKING([for ld used by $CC])
  case $host in
  *-*-mingw*)
    # gcc leaves a trailing carriage return which upsets mingw
    ac_prog='($CC -print-prog-name=ld) 2>&5 | tr -d "\015" ;;
  *)
    ac_prog='($CC -print-prog-name=ld) 2>&5' ;;
  esac
  case $ac_prog in
  # Accept absolute paths.
  [[\V]]* | ?:[[ \V]]*)
    re_direlt='/[^\]]*[[^\]]*\.\./'
    # Canonicalize the pathname of ld
    ac_prog='echo $ac_prog | $SED 's%\\|%/g"'
    while echo $ac_prog | grep "$re_direlt" > /dev/null 2>&1; do
    ac_prog='echo $ac_prog | $SED "s%$re_direlt%/%"'
    done
    test -z "$LD" && LD="$ac_prog"
    ;;
  "")
    # If it fails, then pretend we aren't using GCC.
    ac_prog=ld

```

```

;;
*)
# If it is relative, then search for the first ld in PATH.
with_gnu_ld=unknown
;;
esac
elif test "$with_gnu_ld" = yes; then
AC_MSG_CHECKING([for GNU ld])
else
AC_MSG_CHECKING([for non-GNU ld])
fi
AC_CACHE_VAL(lt_cv_path_LD,
[if test -z "$LD"; then
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for ac_dir in $PATH; do
IFS="$lt_save_ifs"
test -z "$ac_dir" && ac_dir=.
if test -f "$ac_dir/$ac_prog" || test -f "$ac_dir/$ac_prog$ac_exeext"; then
lt_cv_path_LD="$ac_dir/$ac_prog"
# Check to see if the program is GNU ld. I'd rather use --version,
# but apparently some variants of GNU ld only accept -v.
# Break only if it was the GNU/non-GNU ld that we prefer.
case "$lt_cv_path_LD" -v 2>&1 </dev/null' in
*GNU* | *with BFD*)
test "$with_gnu_ld" != no && break
;;
*)
test "$with_gnu_ld" != yes && break
;;
esac
fi
done
IFS="$lt_save_ifs"
else
lt_cv_path_LD="$LD" # Let the user override the test with a path.
fi])
LD="$lt_cv_path_LD"
if test -n "$LD"; then
AC_MSG_RESULT($LD)
else
AC_MSG_RESULT(no)
fi
test -z "$LD" && AC_MSG_ERROR([no acceptable ld found in \$PATH])
AC_PROG_LD_GNU
])# AC_PROG_LD

# AC_PROG_LD_GNU

```



```

# -----
AC_DEFUN([AC_PROG_LD_GNU],
[AC_REQUIRE([AC_PROG_EGREP])dnl
AC_CACHE_CHECK([if the linker ($LD) is GNU ld], lt_cv_prog_gnu_ld,
[# I'd rather use --version here, but apparently some GNU lds only accept -v.
case '$LD -v 2>&1 </dev/null' in
*GNU* | *with BFD*)
lt_cv_prog_gnu_ld=yes
;;
*)
lt_cv_prog_gnu_ld=no
;;
esac])
with_gnu_ld=$lt_cv_prog_gnu_ld
])# AC_PROG_LD_GNU

# AC_PROG_LD_RELOAD_FLAG
# -----
# find reload flag for linker
# -- PORTME Some linkers may need a different reload flag.
AC_DEFUN([AC_PROG_LD_RELOAD_FLAG],
[AC_CACHE_CHECK([for $LD option to reload object files],
lt_cv_ld_reload_flag,
[lt_cv_ld_reload_flag='-r'])
reload_flag=$lt_cv_ld_reload_flag
case $reload_flag in
"" | " "*);;
*) reload_flag="$reload_flag" ;;
esac
reload_cmds='$LD$reload_flag -o $output$reload_objs'
case $host_os in
darwin*)
if test "$GCC" = yes; then
reload_cmds='$LTCCLTCFLAGS -nostdlib ${wl}-r -o $output$reload_objs'
else
reload_cmds='$LD$reload_flag -o $output$reload_objs'
fi
;;
esac
])# AC_PROG_LD_RELOAD_FLAG

# AC_DEPLIBS_CHECK_METHOD
# -----
# how to check for library dependencies
# -- PORTME fill in with the dynamic library characteristics
AC_DEFUN([AC_DEPLIBS_CHECK_METHOD],

```

```

[AC_CACHE_CHECK([how to recognize dependent libraries],
lt_cv_deplibs_check_method,
[lt_cv_file_magic_cmd='$MAGIC_CMD'
lt_cv_file_magic_test_file=
lt_cv_deplibs_check_method='unknown'
# Need to set the preceding variable on all platforms that support
# interlibrary dependencies.
# 'none' -- dependencies not supported.
# 'unknown' -- same as none, but documents that we really don't know.
# 'pass_all' -- all dependencies passed with no checks.
# 'test_compile' -- check by making test program.
# 'file_magic [[regex]]' -- check by looking for files in library path
# which responds to the $file_magic_cmd with a given extended regex.
# If you have 'file' or equivalent on your system and you're not sure
# whether 'pass_all' will *always* work, you probably want this one.

case $host_os in
aix[[4-9]]*)
lt_cv_deplibs_check_method=pass_all
;;

beos*)
lt_cv_deplibs_check_method=pass_all
;;

bsdi[[45]]*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib)'
lt_cv_file_magic_cmd='/usr/bin/file -L'
lt_cv_file_magic_test_file=/shlib/libc.so
;;

cygwin*)
# func_win32_libid is a shell function defined in ltmain.sh
lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
lt_cv_file_magic_cmd='func_win32_libid'
;;

mingw* | pw32*)
# Base MSYS/MinGW do not provide the 'file' command needed by
# func_win32_libid shell function, so use a weaker test based on 'objdump',
# unless we find 'file', for example because we are cross-compiling.
if ( file / ) >/dev/null 2>&1; then
lt_cv_deplibs_check_method='file_magic ^x86 archive import|^x86 DLL'
lt_cv_file_magic_cmd='func_win32_libid'
else
lt_cv_deplibs_check_method='file_magic file format pei*-i386(.*architecture: i386)?'
lt_cv_file_magic_cmd='$OBJDUMP -f'
fi

```

```

;;

darwin* | rhapsody*)
lt_cv_deplibs_check_method=pass_all
;;

freebsd* | dragonfly*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
  case $host_cpu in
    i*86 )
      # Not sure whether the presence of OpenBSD here was a mistake.
      # Let's accept both of them until this is cleared up.
      lt_cv_deplibs_check_method='file_magic (FreeBSD|OpenBSD|DragonFly)/i[[3-9]]86 (compact)?demand paged
shared library'
      lt_cv_file_magic_cmd=/usr/bin/file
      lt_cv_file_magic_test_file='echo /usr/lib/libc.so.*'
      ;;
    esac
  else
    lt_cv_deplibs_check_method=pass_all
  fi
;;

gnu*)
lt_cv_deplibs_check_method=pass_all
;;

hpux10.20* | hpux11*)
lt_cv_file_magic_cmd=/usr/bin/file
case $host_cpu in
  ia64*)
    lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]ELF-[[0-9]][[0-9]]) shared object file - IA64'
    lt_cv_file_magic_test_file=/usr/lib/hpux32/libc.so
    ;;
  hppa*64*)
    [lt_cv_deplibs_check_method='file_magic (s[0-9][0-9][0-9]ELF-[0-9][0-9]) shared object file - PA-RISC [0-
9].[0-9]']
    lt_cv_file_magic_test_file=/usr/lib/pa20_64/libc.sl
    ;;
  *)
    lt_cv_deplibs_check_method='file_magic (s[[0-9]][[0-9]][[0-9]]PA-RISC[[0-9]].[[0-9]]) shared library'
    lt_cv_file_magic_test_file=/usr/lib/libc.sl
    ;;
  esac
;;

interix[[3-9]]*)
# PIC code is broken on Interix 3.x, that's why \.a not \_pic\.a here

```

```

lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\|\.a)$'
;;

irix5* | irix6* | nonstopux*)
case $LD in
*_32|*" -32 ") libmagic=32-bit;;
*_n32|*" -n32 ") libmagic=N32;;
*_64|*" -64 ") libmagic=64-bit;;
*) libmagic=never-match;;
esac
lt_cv_deplibs_check_method=pass_all
;;

# This must be Linux ELF.
linux* | k*bsd*-gnu)
lt_cv_deplibs_check_method=pass_all
;;

netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ > /dev/null; then
  lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
else
  lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so|_pic\.a)$'
fi
;;

newos6*)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (executable|dynamic lib)'
lt_cv_file_magic_cmd=/usr/bin/file
lt_cv_file_magic_test_file=/usr/lib/libnls.so
;;

nto-qnx*)
lt_cv_deplibs_check_method=unknown
;;

openbsd*)
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
  lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
else
  lt_cv_deplibs_check_method='match_pattern /lib[[^/]]+(\.so\.[[0-9]]+\.[[0-9]]+|_pic\.a)$'
fi
;;

osf3* | osf4* | osf5*)
lt_cv_deplibs_check_method=pass_all
;;

```

```

rdos*)
lt_cv_deplibs_check_method=pass_all
;;

solaris*)
lt_cv_deplibs_check_method=pass_all
;;

sysv4 | sysv4.3*)
case $host_vendor in
motorola)
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[ML]]SB (shared object|dynamic lib) M[[0-9]][[0-9]]* Version [[0-9]]*'
lt_cv_file_magic_test_file='echo /usr/lib/libc.so*'
;;
ncr)
lt_cv_deplibs_check_method=pass_all
;;
sequent)
lt_cv_file_magic_cmd='/bin/file'
lt_cv_deplibs_check_method='file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB (shared object|dynamic lib )'
;;
sni)
lt_cv_file_magic_cmd='/bin/file'
lt_cv_deplibs_check_method="file_magic ELF [[0-9]][[0-9]]*-bit [[LM]]SB dynamic lib"
lt_cv_file_magic_test_file=/lib/libc.so
;;
siemens)
lt_cv_deplibs_check_method=pass_all
;;
pc)
lt_cv_deplibs_check_method=pass_all
;;
esac
;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX* | sysv4*uw2*)
lt_cv_deplibs_check_method=pass_all
;;
esac
])
file_magic_cmd=$lt_cv_file_magic_cmd
deplibs_check_method=$lt_cv_deplibs_check_method
test -z "$deplibs_check_method" && deplibs_check_method=unknown
])# AC_DEPLIBS_CHECK_METHOD

# AC_PROG_NM

```

```

# -----
# find the pathname to a BSD-compatible name lister
AC_DEFUN([AC_PROG_NM],
[AC_CACHE_CHECK([for BSD-compatible nm], lt_cv_path_NM,
[if test -n "$NM"; then
# Let the user override the test.
lt_cv_path_NM="$NM"
else
lt_nm_to_check="{ac_tool_prefix}nm"
if test -n "$ac_tool_prefix" && test "$build" = "$host"; then
lt_nm_to_check="$lt_nm_to_check nm"
fi
for lt_tmp_nm in $lt_nm_to_check; do
lt_save_ifs="$IFS"; IFS=$PATH_SEPARATOR
for ac_dir in $PATH /usr/ccs/bin/elf /usr/ccs/bin /usr/ucb /bin; do
IFS="$lt_save_ifs"
test -z "$ac_dir" && ac_dir=.
tmp_nm="$ac_dir/$lt_tmp_nm"
if test -f "$tmp_nm" || test -f "$tmp_nm$ac_exeext" ; then
# Check to see if the nm accepts a BSD-compat flag.
# Adding the 'sed 1q' prevents false positives on HP-UX, which says:
# nm: unknown option "B" ignored
# Tru64's nm complains that /dev/null is an invalid object file
case ""$tmp_nm" -B /dev/null 2>&1 | sed 1q" in
*/dev/null* | *'Invalid file or object type'*)
lt_cv_path_NM="$tmp_nm -B"
break
;;
*)
case ""$tmp_nm" -p /dev/null 2>&1 | sed 1q" in
*/dev/null*)
lt_cv_path_NM="$tmp_nm -p"
break
;;
*)
lt_cv_path_NM=${lt_cv_path_NM="$tmp_nm"} # keep the first match, but
continue # so that we can try to find one that supports BSD flags
;;
esac
done
IFS="$lt_save_ifs"
done
test -z "$lt_cv_path_NM" && lt_cv_path_NM=nm
fi])
NM="$lt_cv_path_NM"

```

```

])# AC_PROG_NM

# AC_CHECK_LIBM
# -----
# check for math library
AC_DEFUN([AC_CHECK_LIBM],
[AC_REQUIRE([AC_CANONICAL_HOST])dnl
LIBM=
case $host in
*-*-beos* | *-*-cygwin* | *-*-pw32* | *-*-darwin*)
# These system don't have libm, or don't need it
;;
*-ncr-sysv4.3*)
AC_CHECK_LIB(mw, _mwvalidcheckl, LIBM="-lmw")
AC_CHECK_LIB(m, cos, LIBM="$LIBM -lm")
;;
*)
AC_CHECK_LIB(m, cos, LIBM="-lm")
;;
esac
])# AC_CHECK_LIBM

# AC_LIBLTDL_CONVENIENCE([DIRECTORY])
# -----
# sets LIBLTDL to the link flags for the libltdl convenience library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-convenience to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# it is assumed to be 'libltdl'. LIBLTDL will be prefixed with
# '${top_builddir}/' and LTDLINCL will be prefixed with '${top_srcdir}/'
# (note the single quotes!). If your package is not flat and you're not
# using automake, define top_builddir and top_srcdir appropriately in
# the Makefiles.
AC_DEFUN([AC_LIBLTDL_CONVENIENCE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
case $enable_ltdl_convenience in
no) AC_MSG_ERROR([this package needs a convenience libltdl]) ;;
"") enable_ltdl_convenience=yes
    ac_configure_args="$ac_configure_args --enable-ltdl-convenience" ;;
esac
LIBLTDL='${top_builddir}/'ifelse($#,1,[${1},['libltdl']]/libltdlc.la
LTDLINCL='-I${top_srcdir}/'ifelse($#,1,[${1},['libltdl']])
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
])# AC_LIBLTDL_CONVENIENCE

```

```

# AC_LIBLTDL_INSTALLABLE([DIRECTORY])
# -----
# sets LIBLTDL to the link flags for the libltdl installable library and
# LTDLINCL to the include flags for the libltdl header and adds
# --enable-ltdl-install to the configure arguments. Note that
# AC_CONFIG_SUBDIRS is not called here. If DIRECTORY is not provided,
# and an installed libltdl is not found, it is assumed to be 'libltdl'.
# LIBLTDL will be prefixed with '${top_builddir}/#' and LTDLINCL with
# '${top_srcdir}/' (note the single quotes!). If your package is not
# flat and you're not using automake, define top_builddir and top_srcdir
# appropriately in the Makefiles.
# In the future, this macro may have to be called after AC_PROG_LIBTOOL.
AC_DEFUN([AC_LIBLTDL_INSTALLABLE],
[AC_BEFORE([$0],[AC_LIBTOOL_SETUP])dnl
AC_CHECK_LIB(ltdl, lt_dlimit,
[test x"$enable_ltdl_install" != xyes && enable_ltdl_install=no],
[if test x"$enable_ltdl_install" = xno; then
    AC_MSG_WARN([libltdl not installed, but installation disabled])
else
    enable_ltdl_install=yes
fi
])
if test x"$enable_ltdl_install" = x"yes"; then
    ac_configure_args="$ac_configure_args --enable-ltdl-install"
    LIBLTDL='${top_builddir}/'ifelse($#,1,[${1},[libltdl])/libltdl.la
    LTDLINCL=-I${top_srcdir}/'ifelse($#,1,[${1},[libltdl])
else
    ac_configure_args="$ac_configure_args --enable-ltdl-install=no"
    LIBLTDL="-lltdl"
    LTDLINCL=
fi
# For backwards non-gettext consistent compatibility...
INCLTDL="$LTDLINCL"
])# AC_LIBLTDL_INSTALLABLE

```

```

# AC_LIBTOOL_CXX
# -----
# enable support for C++ libraries
AC_DEFUN([AC_LIBTOOL_CXX],
[AC_REQUIRE([_LT_AC_LANG_CXX])
])# AC_LIBTOOL_CXX

```

```

# _LT_AC_LANG_CXX
# -----
AC_DEFUN([_LT_AC_LANG_CXX],

```



```
[AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])
_LT_AC_SHELL_INIT([tagames=${tagames+${tagames},}CXX])
])# _LT_AC_LANG_CXX
```

```
# _LT_AC_PROG_CXXCPP
# -----
AC_DEFUN([_LT_AC_PROG_CXXCPP],
[
AC_REQUIRE([AC_PROG_CXX])
if test -n "$CXX" && ( test "X$CXX" != "Xno" &&
  ( (test "X$CXX" = "Xg++" && 'g++ -v >/dev/null 2>&1' ) ||
    (test "X$CXX" != "Xg++"))) ; then
AC_PROG_CXXCPP
fi
])# _LT_AC_PROG_CXXCPP
```

```
# AC_LIBTOOL_F77
# -----
# enable support for Fortran 77 libraries
AC_DEFUN([AC_LIBTOOL_F77],
[AC_REQUIRE([_LT_AC_LANG_F77])
])# AC_LIBTOOL_F77
```

```
# _LT_AC_LANG_F77
# -----
AC_DEFUN([_LT_AC_LANG_F77],
[AC_REQUIRE([AC_PROG_F77])
_LT_AC_SHELL_INIT([tagames=${tagames+${tagames},}F77])
])# _LT_AC_LANG_F77
```

```
# AC_LIBTOOL_GCJ
# -----
# enable support for GCJ libraries
AC_DEFUN([AC_LIBTOOL_GCJ],
[AC_REQUIRE([_LT_AC_LANG_GCJ])
])# AC_LIBTOOL_GCJ
```

```
# _LT_AC_LANG_GCJ
# -----
AC_DEFUN([_LT_AC_LANG_GCJ],
[AC_PROVIDE_IFELSE([AC_PROG_GCJ],[],
[AC_PROVIDE_IFELSE([A][M_PROG_GCJ],[],
[AC_PROVIDE_IFELSE([LT_AC_PROG_GCJ],[],
[ifdef([AC_PROG_GCJ],[AC_REQUIRE([AC_PROG_GCJ])],
```

```

[ifdef([A][M_PROG_GCJ],[AC_REQUIRE([A][M_PROG_GCJ]),
  [AC_REQUIRE([A][C_PROG_GCJ_OR_A][M_PROG_GCJ])])])])
_LT_AC_SHELL_INIT([tagames=${tagames+${tagames},}GCJ)
])# _LT_AC_LANG_GCJ

# AC_LIBTOOL_RC
# -----
# enable support for Windows resource files
AC_DEFUN([AC_LIBTOOL_RC],
[AC_REQUIRE([LT_AC_PROG_RC])
_LT_AC_SHELL_INIT([tagames=${tagames+${tagames},}RC)
])# AC_LIBTOOL_RC

# AC_LIBTOOL_LANG_C_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_C_CONFIG], [_LT_AC_LANG_C_CONFIG])
AC_DEFUN([_LT_AC_LANG_C_CONFIG],
[lt_save_CC="$CC"
AC_LANG_PUSH(C)

# Source file extension for C test sources.
ac_ext=c

# Object file extension for compiled C test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(){return(0);}'

_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)

```

```

AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
AC_LIBTOOL_SYS_LIB_STRIP
AC_LIBTOOL_DLOPEN_SELF

# Report which library types will actually be built
AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$scan_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.
case $host_os in
aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
archive_cmds="$archive_cmds~\${RANLIB} \${lib}"
postinstall_cmds='${RANLIB} $lib'
fi
;;

aix[[4-9]]*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_C_CONFIG

# AC_LIBTOOL_LANG_CXX_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by

```

```

# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_CXX_CONFIG], [_LT_AC_LANG_CXX_CONFIG(CXX)])
AC_DEFUN([_LT_AC_LANG_CXX_CONFIG],
[AC_LANG_PUSH(C++)
AC_REQUIRE([AC_PROG_CXX])
AC_REQUIRE([_LT_AC_PROG_CXXCPP])

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Dependencies to place before and after the object being linked:
_LT_AC_TAGVAR(predep_objects, $1)=
_LT_AC_TAGVAR(postdep_objects, $1)=
_LT_AC_TAGVAR(predeps, $1)=
_LT_AC_TAGVAR(postdeps, $1)=
_LT_AC_TAGVAR(compiler_lib_search_path, $1)=
_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=

# Source file extension for C++ test sources.
ac_ext=cpp

# Object file extension for compiled C++ test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="int some_variable = 0;"

# Code to be used in simple link tests
lt_simple_link_test_code='int main(int, char *[]) { return(0); }'

```

```

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC=$CC
lt_save_LD=$LD
lt_save_GCC=$GCC
GCC=$GXX
lt_save_with_gnu_ld=$with_gnu_ld
lt_save_path_LD=$lt_cv_path_LD
if test -n "${lt_cv_prog_gnu_ldcxx+set}"; then
  lt_cv_prog_gnu_ld=$lt_cv_prog_gnu_ldcxx
else
  $as_unset lt_cv_prog_gnu_ld
fi
if test -n "${lt_cv_path_LDCXX+set}"; then
  lt_cv_path_LD=$lt_cv_path_LDCXX
else
  $as_unset lt_cv_path_LD
fi
test -z "${LDCXX+set}" || LD=$LDCXX
CC=${CXX-"c++"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# We don't want -fno-exception wen compiling C++ code, so set the
# no_builtin_flag separately
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=' -fno-builtin'
else
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)=
fi

if test "$GXX" = yes; then
  # Set up default GNU C++ configuration

  AC_PROG_LD

  # Check if GNU C++ uses GNU ld as the underlying linker, since the
  # archiving commands below assume that GNU ld is being used.
  if test "$with_gnu_ld" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'

```

```

_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

# If archive_cmds runs LD, not CC, wlarc should be empty
# XXX I think wlarc can be eliminated in ltcf-cxx, but I need to
# investigate it a little bit more. (MM)
wlarc='${wl}'

# ancient GNU ld didn't support --whole-archive et. al.
if eval ""$CC -print-prog-name=ld' --help 2>&1" |\
grep 'no-whole-archive' > /dev/null; then
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience ""$wlarc"--no-
whole-archive'
else
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
else
with_gnu_ld=no
wlarc=

# A generic and very simple default shared library creation
# command for GNU C++ for the case where it uses the native
# linker, instead of GNU ld. If possible, this setting should
# be overridden to take advantage of the native linker features on
# the platform it is being used on.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $lib'
fi

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"'

else
GXX=no
with_gnu_ld=no
wlarc=
fi

# PORTME: fill in a description of your system's C++ link characteristics
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
case $host_os in

```

```

aix3*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
aix[[4-9]]*)
if test "$host_cpu" = ia64; then
# On IA64, the linker does run time linking by default, so we don't
# have to do anything special.
aix_use_runtimelinking=no
exp_sym_flag='-Bexport'
no_entry_flag=""
else
aix_use_runtimelinking=no

# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[[23]]|aix4.[[23]].*|aix[[5-9]]*)
for ld_flag in $LDFLAGS; do
case $ld_flag in
*-brtl*)
aix_use_runtimelinking=yes
break
;;
esac
done
;;
esac

exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi

# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.

_LT_AC_TAGVAR(archive_cmds, $1)="
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes

if test "$GXX" = yes; then
case $host_os in aix4.[[012]]|aix4.[[012]].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+

```

```

collect2name='${CC} -print-prog-name=collect2'
if test -f "$collect2name" && \
  strings "$collect2name" | grep resolve_lib_name >/dev/null
then
  # We have reworked collect2
  :
else
  # We have old collect2
  _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
  # It fails to find uninstalled libraries when the uninstalled
  # path is not listed in the libpath. Setting hardcode_minus_L
  # to unsupported forces relinking
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
shared_flag="$shared_flag "${wl}-G'
fi
else
  # not using gcc
  if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
shared_flag='-G'
  else
if test "$aix_use_runtimelinking" = yes; then
  shared_flag='${wl}-G'
else
  shared_flag='${wl}-bM:SRE'
fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
  # Warning - without using the other runtime loading flags (-brtl),
  # -berok will link without error, but may produce a broken library.
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
  # Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"

```



```

_LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC" -o $output_objdir/$soname $libobjs $deplibs
""\${wl}$no_entry_flag" $compiler_flags 'if test "x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi' ""\${wl}$exp_sym_flag:\$export_symbols $shared_flag"
else
  if test "$host_cpu" = ia64; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
    $deplibs ""\${wl}$no_entry_flag" $compiler_flags ${wl}${allow_undefined_flag}
    ""\${wl}$exp_sym_flag:\$export_symbols"
  else
    # Determine the default libpath from the value encoded in an empty executable.
    _LT_AC_SYS_LIBPATH_AIX
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
    # Warning - without using the other run time loading flags,
    # -berok will link without error, but may produce a broken library.
    _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
    # Exported symbols can be pulled into shared objects from archives
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
    _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
    # This is similar to how AIX traditionally builds its shared libraries.
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
    $deplibs ${wl}-bnoentry $compiler_flags ${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
    $output_objdir/$libname$release.a $output_objdir/$soname'
  fi
fi
;;

beos*)
if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
  # support --undefined. This deserves some investigation. FIXME
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

chorus*)
case $cc_basename in
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac

```

```

;;

cygwin* | mingw* | pw32*)
# _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
# as there is no search path for DLLs.
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes

if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib
-Xlinker $lib'
  # If the export-symbols file already is a .def file (1st line
  # is EXPORTS), use it as is; otherwise, prepend...
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="if test \"x$SED 1q $export_symbols\" = xEXPORTS; then
cp $export_symbols $output_objdir/$soname.def;
else
echo EXPORTS > $output_objdir/$soname.def;
cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared -nostdlib $output_objdir/$soname.def $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags -o $output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

darwin* | rhapsody*)
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$lt_dar_allow_undefined"
if test "$GXX" = yes ; then
  output_verbose_link_cmd='echo'
  _LT_AC_TAGVAR(archive_cmds, $1)="$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs
\$compiler_flags -install_name \$rpath/$soname \$verstring $lt_dar_single_mod${lt_dsymutil}"
  _LT_AC_TAGVAR(module_cmds, $1)="$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs
\$compiler_flags${lt_dsymutil}"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_' < \$export_symbols >
\$output_objdir/\${libname}-symbols.expsym~\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs
\$deplibs \$compiler_flags -install_name \$rpath/$soname \$verstring
\${lt_dar_single_mod}\${lt_dar_export_syms}\${lt_dsymutil}"
  _LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,^,_' < \$export_symbols >
\$output_objdir/\${libname}-symbols.expsym~\$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs

```

```

\${compiler_flags}\${_lt_dar_export_syms}\${_lt_dsymutil}"
  if test "$lt_cv_apple_cc_single_mod" != "yes"; then
    _LT_AC_TAGVAR(archive_cmds, $1)="\$CC -r -keep_private_externs -nostdlib -o \${lib}-master.o
\${libobjs}~\$CC -dynamiclib \${allow_undefined_flag} -o \${lib} \${lib}-master.o \${deplibs} \${compiler_flags} -
install_name \${rpath}/\${soname} \${verstring}\${_lt_dsymutil}"
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_' < \${export_symbols} >
\${output_objdir}/\${libname}-symbols.expsym~\$CC -r -keep_private_externs -nostdlib -o \${lib}-master.o
\${libobjs}~\$CC -dynamiclib \${allow_undefined_flag} -o \${lib} \${lib}-master.o \${deplibs} \${compiler_flags} -
install_name \${rpath}/\${soname} \${verstring}\${_lt_dar_export_syms}\${_lt_dsymutil}"
  fi
  else
  case $cc_basename in
  xlc*)
    output_verbose_link_cmd='echo'
    _LT_AC_TAGVAR(archive_cmds, $1)="\$CC -qmkshrobj \${wl}-single_module \${allow_undefined_flag} -o
\${lib} \${libobjs} \${deplibs} \${compiler_flags} \${wl}-install_name \${wl}'echo \${rpath}/\${soname}' \${xlcverstring}'
    _LT_AC_TAGVAR(module_cmds, $1)="\$CC \${allow_undefined_flag} -o \${lib} -bundle \${libobjs}
\${deplibs}\${compiler_flags}'
    # Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e "s,#,*,," -e "s,^[ ]*,," -e "s,^(.*)_,_&," <
\${export_symbols} > \${output_objdir}/\${libname}-symbols.expsym~\$CC -qmkshrobj \${wl}-single_module
\${allow_undefined_flag} -o \${lib} \${libobjs} \${deplibs} \${compiler_flags} \${wl}-install_name \${wl}\${rpath}/\${soname}
\${xlcverstring}~nmedit -s \${output_objdir}/\${libname}-symbols.expsym \${lib}'
    _LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e "s,#,*,," -e "s,^[ ]*,," -e "s,^(.*)_,_&," <
\${export_symbols} > \${output_objdir}/\${libname}-symbols.expsym~\$CC \${allow_undefined_flag} -o \${lib} -bundle
\${libobjs} \${deplibs}\${compiler_flags}~nmedit -s \${output_objdir}/\${libname}-symbols.expsym \${lib}'
    ;;
  *)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
  esac
  fi
  ;;

dgux*)
  case $cc_basename in
  ec++*)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
  ghcx*)
    # Green Hills C++ Compiler
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    ;;
  *)
    # FIXME: insert proper C++ library support
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  
```

```

;;
esac
;;
freebsd[[12]]*)
# C++ shared libraries reported to be fairly broken before switch to ELF
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
freebsd-elf*)
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
;;
freebsd* | dragonfly*)
# FreeBSD 3 and later use GNU C++ and GNU ld with standard ELF
# conventions
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
;;
gnu*)
;;
hpux9*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
# but as the default
# location of the library.

case $cc_basename in
CC*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
aCC*)
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -b ${wl}+b ${wl}$install_libdir -o
$output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags~test
$output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='($CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "[[-]]L"; list=''; for z
in $templist; do case $z in conftest.$objext) list="$list $z";; *.objext);; *) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes; then

```

```

_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -shared -nostdlib -fPIC ${wl}+b
${wl}$install_libdir -o $output_objdir/$soname $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~test $output_objdir/$soname = $lib || mv $output_objdir/$soname $lib'
else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
hpux10*|hpux11*)
if test $with_gnu_ld = no; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=

  case $host_cpu in
    hppa*64*|ia64*) ;;
    *)
      _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
      ;;
  esac
fi
case $host_cpu in
  hppa*64*|ia64*)
    _LT_AC_TAGVAR(hardcode_direct, $1)=no
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;
  *)
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes # Not in the search PATH,
      # but as the default
      # location of the library.
    ;;
  esac

  case $cc_basename in
    CC*)
      # FIXME: insert proper C++ library support
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      ;;
    aCC*)
      case $host_cpu in
        hppa*64*)
          _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname -o $lib $predep_objects $libobjs
$deplibs $postdep_objects $compiler_flags'
          ;;
        ia64*)
          _LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib

```

```

$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
;;
*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
;;
esac
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='($CC -b $CFLAGS -v conftest.$objext 2>&1) | grep "\-L"; list=""; for z in
$templist; do case $z in conftest.$objext) list="$list $z"; *.objext); *) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes; then
  if test $with_gnu_ld = no; then
    case $host_cpu in
      hppa*64*)
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
      ia64*)
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname
${wl}+nodefaultpath -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
      *)
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags'
        ;;
    esac
  fi
else
  # FIXME: insert proper C++ library support
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
interix[[3-9]]*)
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

```

```

# Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
# Instead, shared libraries are loaded at an image base (0x10000000 by
# default) and relocated if they conflict, which is a slow very memory
# consuming and fragmenting process. To avoid this, we pick a random,
# 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
# time. Moving up from 0x10000000 also allows more sbrk(2) space.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-
h,$soname ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2 \* 262144 + 1342177280' -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_" $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname
${wl}--retain-symbols-file,$output_objdir/$soname.expsym ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2
\* 262144 + 1342177280' -o $lib'
;;
irix5* | irix6*)
  case $cc_basename in
    CC*)
# SGI C++
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -all -multigot $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -
update_registry ${output_objdir}/so_locations -o $lib'

# Archives containing C++ object files must be created using
# "CC -ar", where "CC" is the IRIX C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -ar -WR,-u -o $oldlib $oldobjs'
;;
*)
if test "$GXX" = yes; then
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring' ${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version
${wl}$verstring' -o $lib'
  fi
fi
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;
esac
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;
linux* | k*bsd*-gnu)
  case $cc_basename in
    KCC*)

```

```

# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_LT_AC_TAGVAR(archive_cmds, $1)=tempext='echo $shared_ext | $SED -e '\$^([[^()0-9A-Za-z{}}])\|/g\'";
templib='echo $lib | $SED -e "s/\${tempext}\.*/.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags --soname $soname -o \${templib}; mv \${templib} $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=tempext='echo $shared_ext | $SED -e '\$^([[^()0-9A-Za-
z{}}])\|/g\'"; templib='echo $lib | $SED -e "s/\${tempext}\.*/.so/"; $CC $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags --soname $soname -o \${templib} ${wl}-retain-symbols-file,$export_symbols; mv
\${templib} $lib'
# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist="$CC $CFLAGS -v conftest.$objext -o libconftest$shared_ext 2>&1 | grep
"ld"; rm -f libconftest$shared_ext; list=""; for z in $templist; do case $z in conftest.$objext) list="$list $z";;
*.objext);; *) list="$list $z";; esac; done; echo $list'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib $oldobjs'
;;
icpc*)
# Intel C++
with_gnu_ld=yes
# version 8.0 and above of icpc choke on multiply defined symbols
# if we add $predep_objects and $postdep_objects, however 7.1 and
# earlier do not add the objects themselves.
case '$CC -V 2>&1' in
*"Version 7."*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags ${wl}-soname $wl$soname -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o
$lib'
  ;;
*) # Version 8.0 or newer
  tmp_idyn=
  case $host_cpu in

```



```

    ia64*) tmp_idyn='-i_dynamic';;
esac
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared'"$tmp_idyn"' $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared'"$tmp_idyn"' $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
;;
esac
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive$convenience ${wl}--no-whole-archive'
;;
pgCC* | pgcpp*)
    # Portland Group C++ compiler
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'

    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience\ ""; do test -n \"$conv\" && new_convenience=\"$new_convenience,$conv\"; done; $echo \"$new_convenience\" ${wl}--no-whole-archive'
    ;;
cxx*)
    # Compaq C++
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname $wl$soname -o $lib ${wl}-retain-symbols-file $wl$export_symbols'

runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld"; templist='echo $templist | $SED "s/^(^.*ld.*)\(.*.ld.*)\1/"'; list=""; for z in $templist; do case $z in conftest.$objext) list="$list

```

```

$z";; *.Sobjext);; *) list="$list $z";;esac; done; echo $list'
;;
*)
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
# Sun C++ 5.9
_LT_AC_TAGVAR(no_undefined_flag, $1)='-zdefs'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G${allow_undefined_flag} -h$soname -o $lib
$predep_objects $libobjs $deplibs $postdep_objects $compiler_flags ${wl}-retain-symbols-file
${wl}$export_symbols'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'new_convenience=; for conv in
$convenience\\""; do test -z \"$conv\" || new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\\"" $wl}--no-whole-archive'

# Not sure whether something based on
# $CC $CFLAGS -v conftest.Sobjext -o libconftest$shared_ext 2>&1
# would be better.
output_verbose_link_cmd='echo'

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -xar -o $oldlib $oldobjs'
;;
esac
;;
esac
;;
lynxos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
m88k*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
mvs*)
case $cc_basename in
cxx*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support

```

```

_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $linker_flags'
  wlarc=
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
fi
# Workaround some broken pre-1.5 toolchains
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep conftest.$objext | $SED -e
"s:-lgcc -lc -lgcc::"'
;;
openbsd2*)
# C++ shared libraries are fairly broken
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
openbsd*)
if test -f /usr/libexec/ld.so; then
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -o $lib'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-retain-symbols-file,$export_symbols -o $lib'
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience "$wlarc"--no-whole-
archive'
  fi
  output_verbose_link_cmd='echo'
else
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
osf3*)
case $cc_basename in
  KCC*)
# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.

```

```

_LT_AC_TAGVAR(archive_cmds, $1)=tempext='echo $shared_ext | $SED -e \"s/([[:^()0-9A-Za-z{ }])/\|/g\"";
templib='echo $lib | $SED -e \"s/({tempext})\././so/\""; $CC $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags --soname $soname -o $templib; mv $templib $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Archives containing C++ object files must be created using
# "CC -Bstatic", where "CC" is the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -Bstatic -o $oldlib $oldobjs'

;;
RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-expect_unresolved ${wl}\*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-soname $soname 'test -n "$verstring" && echo ${wl}-set_version
$verstring' -update_registry ${output_objdir}/so_locations -o $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:"";
templist='echo $templist | $SED "s/^(^.*Id.*)\(.*.Id.*$)\|/"/"; list=""; for z in $templist; do case $z in
conftest.$objext) list="$list $z";; *.Objext);; *) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-expect_unresolved ${wl}\*'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib ${allow_undefined_flag} $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo
${wl}-set_version ${wl}$verstring' ${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

```

```

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
osf4* | osf5*)
case $cc_basename in
  KCC*)
# Kuck and Associates, Inc. (KAI) C++ Compiler

# KCC will only create a shared library if the output file
# ends with ".so" (or ".sl" for HP-UX), so rename the library
# to its proper name (with version) after linking.
_LT_AC_TAGVAR(archive_cmds, $1)=tempext='echo $shared_ext | $SED -e 's/\([[^()0-9A-Za-z{ }]]\)/\|\|\|1/g\'';
templib='echo $lib | $SED -e "s/\${tempext}\.*/.so/"; $CC $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags --soname $soname -o \${templib}; mv \${templib} $lib'

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Archives containing C++ object files must be created using
# the KAI C++ compiler.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -o $oldlib $oldobjs'
;;
  RCC*)
# Rational C++ 2.4.1
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
  cxx*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-expect_undefined \*'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags -msym -soname $soname `test -n "$verstring" && echo -set_version $verstring` -
update_registry ${output_objdir}/so_locations -o $lib'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='for i in `cat $export_symbols`; do printf "%s %s\n" -
exported_symbol "$i" >> $lib.exp; done~
echo "-hidden">> $lib.exp~
$CC -shared$allow_undefined_flag $predep_objects $libobjs $deplibs $postdep_objects $compiler_flags -msym -
soname $soname -Wl,-input -Wl,$lib.exp `test -n "$verstring" && echo -set_version $verstring` -update_registry
${output_objdir}/so_locations -o $lib~
$rm $lib.exp'

```

```

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
#
# There doesn't appear to be a way to prevent this compiler from
# explicitly linking system object files so we need to strip them
# from the output so that they don't get included in the library
# dependencies.
output_verbose_link_cmd='templist='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "ld" | grep -v "ld:";
templist='echo $templist | $SED "s/^(^.*ld.*)\(.*.ld.*$)\^1/"; list=""; for z in $templist; do case $z in
conftest.$objext) list="$list $z"; *.objext); *) list="$list $z";;esac; done; echo $list'
;;
*)
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}\*'
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib ${allow_undefined_flag} $predep_objects $libobjs
$dprelibs $postdep_objects $compiler_flags ${wl}-msym ${wl}-soname ${wl}$soname `test -n "$verstring" &&
echo ${wl}-set_version ${wl}$verstring' ${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'

  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

# Commands to make compiler produce verbose output that lists
# what "hidden" libraries, object files and flags are used when
# linking a shared library.
output_verbose_link_cmd='$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep "\-L"'

else
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;
esac
;;
psos*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
sunos4*)
case $cc_basename in
  CC*)
# Sun C++ 4.x
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no

```

```

;;
    lcc*)
# Lucid
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
    *)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
    esac
;;
solaris*)
    case $cc_basename in
        CC*)
# Sun C++ 4.2, 5.x and Centerline C++
        _LT_AC_TAGVAR(archive_cmds_need_lc,$1)=yes
        _LT_AC_TAGVAR(no_undefined_flag, $1)='-zdefs'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G${allow_undefined_flag} -h$name -o $lib $predep_objects
$libobjs $deplibs $postdep_objects $compiler_flags'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -G${allow_undefined_flag} ${wl}-M ${wl}$lib.exp -h$name -o $lib $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags~$rm $lib.exp'

        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
        _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    case $host_os in
        solaris2.[0-5] | solaris2.[0-5].*) ;;
        *)
            # The compiler driver will combine and reorder linker options,
            # but understands '-z linker_flag'.
            # Supported since Solaris 2.6 (maybe 2.5.1?)
            _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z allextract$convenience -z defaultextract'
            ;;
    esac
    _LT_AC_TAGVAR(link_all_deplibs, $1)=yes

output_verbose_link_cmd='echo'

# Archives containing C++ object files must be created using
# "CC -xar", where "CC" is the Sun C++ compiler. This is
# necessary to make sure instantiated templates are included
# in the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC -xar -o $oldlib $oldobjs'
;;
    gcx*)
# Green Hills C++ Compiler

```

```

_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags ${wl}-h $wl$soname -o $lib'

# The C++ compiler must be used to create the archive.
_LT_AC_TAGVAR(old_archive_cmds, $1)='$CC $LDFLAGS -archive -o $oldlib $oldobjs'
;;
*)
# GNU C++ compiler with Solaris linker
if test "$GXX" = yes && test "$with_gnu_ld" = no; then
  _LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-z ${wl}defs'
  if $CC --version | grep -v '^2\.7' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -shared -nostdlib ${wl}-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~$rm $lib.exp'

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    output_verbose_link_cmd="$CC -shared $CFLAGS -v conftest.$objext 2>&1 | grep \"\\-L\""
  else
    # g++ 2.7 appears to require '-G' NOT '-shared' on this
    # platform.
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G -nostdlib $LDFLAGS $predep_objects $libobjs $deplibs
$postdep_objects $compiler_flags ${wl}-h $wl$soname -o $lib'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -G -nostdlib ${wl}-M $wl$lib.exp -o $lib $predep_objects $libobjs $deplibs $postdep_objects
$compiler_flags~$rm $lib.exp'

    # Commands to make compiler produce verbose output that lists
    # what "hidden" libraries, object files and flags are used when
    # linking a shared library.
    output_verbose_link_cmd="$CC -G $CFLAGS -v conftest.$objext 2>&1 | grep \"\\-L\""
  fi
fi

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $wl$libdir'
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z ${wl}allextract$convenience ${wl}-z
${wl}defaultextract'
  ;;
esac
fi
;;

```



```

esac
;;
sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[[01]].[[10]]* | unixware7* | sco3.2v5.0.[[024]]*)
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var='LD_RUN_PATH'

case $cc_basename in
  CC*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
  ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
  ;;
esac
;;
sysv5* | sco3.2v5* | sco5v6*)
# Note: We can NOT use -z defs as we might desire, because we do not
# link with -lc, and that would cause any symbols used from libc to
# always be unresolved, which means just about no library would
# ever link correctly.  If we're not using GNU ld we use -z text
# though, which does catch some bad symbols but isn't as heavy-handed
# as -z defs.
# For security reasons, it is highly recommended that you always
# use absolute paths for naming shared libraries, and exclude the
# DT_RUNPATH tag from executables and libraries.  But doing so
# requires that you compile everything twice, which is a pain.
# So that behaviour is only enabled if SCOABSPATH is set to a
# non-empty value in the environment.  Most likely only useful for
# creating official distributions of packages.
# This is a hack until libtool officially supports absolute path
# names for shared libraries.
_LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
_LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-R,$libdir"
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
runpath_var='LD_RUN_PATH'

case $cc_basename in

```

```

CC*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib
$libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
;;
*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o
$lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
;;
esac
;;
tandem*)
case $cc_basename in
NCC*)
# NonStop-UX NCC 3.20
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
;;
vxworks*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
*)
# FIXME: insert proper C++ library support
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;
esac
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

_LT_AC_TAGVAR(GCC, $1)="$GXX"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_POSTDEP_PREDEP($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)

```

```
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)
```

```
AC_LIBTOOL_CONFIG($1)
```

```
AC_LANG_POP
```

```
CC=$lt_save_CC
```

```
LDCXX=$LD
```

```
LD=$lt_save_LD
```

```
GCC=$lt_save_GCC
```

```
with_gnu_ldcxx=$with_gnu_ld
```

```
with_gnu_ld=$lt_save_with_gnu_ld
```

```
lt_cv_path_LDCXX=$lt_cv_path_LD
```

```
lt_cv_path_LD=$lt_save_path_LD
```

```
lt_cv_prog_gnu_ldcxx=$lt_cv_prog_gnu_ld
```

```
lt_cv_prog_gnu_ld=$lt_save_with_gnu_ld
```

```
)]# AC_LIBTOOL_LANG_CXX_CONFIG
```

```
# AC_LIBTOOL_POSTDEP_PREDEP([TAGNAME])
```

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

```
# Figure out "hidden" library dependencies from verbose
```

```
# compiler output when linking a shared library.
```

```
# Parse the compiler output and extract the necessary
```

```
# objects, libraries and library flags.
```

```
AC_DEFUN([AC_LIBTOOL_POSTDEP_PREDEP],
```

```
[AC_REQUIRE([LT_AC_PROG_SED])dnl
```

```
dnl we can't use the lt_simple_compile_test_code here,
```

```
dnl because it contains code intended for an executable,
```

```
dnl not a library. It's possible we should let each
```

```
dnl tag define a new lt_????_link_test_code variable,
```

```
dnl but it's only used here...
```

```
ifelse([$1],[],[cat > conftest.$ac_ext <<EOF
```

```
int a;
```

```
void foo (void) { a = 0; }
```

```
EOF
```

```
],[[ $1 ],[CXX],[cat > conftest.$ac_ext <<EOF
```

```
class Foo
```

```
{
```

```
public:
```

```
Foo (void) { a = 0; }
```

```
private:
```

```
int a;
```

```
};
```

```
EOF
```

```
],[[ $1 ],[F77],[cat > conftest.$ac_ext <<EOF
```

```
subroutine foo
```

```
implicit none
```

```
integer*4 a
```

```
a=0
```

```

    return
end
EOF
],[${1}],[GCJ],[cat > conftest.$ac_ext <<EOF
public class foo {
private int a;
public void bar (void) {
    a = 0;
}
};
EOF
)
dnl Parse the compiler output and extract the necessary
dnl objects, libraries and library flags.
if AC_TRY_EVAL(ac_compile); then
    # Parse the compiler output and extract the necessary
    # objects, libraries and library flags.

    # Sentinel used to keep track of whether or not we are before
    # the conftest object file.
    pre_test_object_deps_done=no

    # The '*' in the case matches for architectures that use 'case' in
    # $output_verbose_cmd can trigger glob expansion during the loop
    # eval without this substitution.
    output_verbose_link_cmd='$echo "X$output_verbose_link_cmd" | $Xsed -e "$no_glob_subst"'

    for p in `eval $output_verbose_link_cmd`; do
        case $p in

            -L* | -R* | -l*)
                # Some compilers place space between "-{L,R}" and the path.
                # Remove the space.
                if test $p = "-L" \
                || test $p = "-R"; then
                    prev=$p
                    continue
                else
                    prev=
                fi

                if test "$pre_test_object_deps_done" = no; then
                    case $p in
                    -L* | -R*)
                        # Internal compiler library paths should come after those
                        # provided the user. The postdeps already come after the
                        # user supplied libs so there is no need to process them.
                        if test -z "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then

```

```

    _LT_AC_TAGVAR(compiler_lib_search_path, $1)="${prev}${p}"
  else
    _LT_AC_TAGVAR(compiler_lib_search_path, $1)="${_LT_AC_TAGVAR(compiler_lib_search_path, $1)}
${prev}${p}"
  fi
  ;;
# The "-l" case would never come before the object being
# linked, so don't bother handling this case.
esac
  else
if test -z "$_LT_AC_TAGVAR(postdeps, $1)"; then
  _LT_AC_TAGVAR(postdeps, $1)="${prev}${p}"
else
  _LT_AC_TAGVAR(postdeps, $1)="${_LT_AC_TAGVAR(postdeps, $1)} ${prev}${p}"
fi
  fi
  ;;

*.Sobjext)
  # This assumes that the test object file only shows up
  # once in the compiler output.
  if test "$p" = "conftest.Sobjext"; then
pre_test_object_deps_done=yes
continue
  fi

  if test "$pre_test_object_deps_done" = no; then
if test -z "$_LT_AC_TAGVAR(predep_objects, $1)"; then
  _LT_AC_TAGVAR(predep_objects, $1)="$p"
else
  _LT_AC_TAGVAR(predep_objects, $1)="_LT_AC_TAGVAR(predep_objects, $1) $p"
fi
  else
if test -z "$_LT_AC_TAGVAR(postdep_objects, $1)"; then
  _LT_AC_TAGVAR(postdep_objects, $1)="$p"
else
  _LT_AC_TAGVAR(postdep_objects, $1)="_LT_AC_TAGVAR(postdep_objects, $1) $p"
fi
  fi
  ;;

*) ;; # Ignore the rest.

esac
done

# Clean up.
rm -f a.out a.exe

```

```

else
  echo "libtool.m4: error: problem compiling $1 test program"
fi

$rm -f confest.$objext

_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=
if test -n "$_LT_AC_TAGVAR(compiler_lib_search_path, $1)"; then
  _LT_AC_TAGVAR(compiler_lib_search_dirs, $1)=echo " ${_LT_AC_TAGVAR(compiler_lib_search_path,
$1)}" | ${SED} -e 's! -L! !g' -e 's!^ !!'
fi

# PORTME: override above test on systems where it is broken
ifelse([$1],[CXX],
[case $host_os in
interix[[3-9]]*)
  # Interix 3.5 installs completely hosed .la files for C++, so rather than
  # hack all around it, let's just trust "g++" to DTRT.
  _LT_AC_TAGVAR(predep_objects,$1)=
  _LT_AC_TAGVAR(postdep_objects,$1)=
  _LT_AC_TAGVAR(postdeps,$1)=
  ;;

linux*)
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
  # Sun C++ 5.9
  #
  # The more standards-conforming stlport4 library is
  # incompatible with the Cstd library. Avoid specifying
  # it if it's in CXXFLAGS. Ignore libCrun as
  # -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
*" -library=stlport4 "*)
  solaris_use_stlport4=yes
  ;;
esac
if test "$solaris_use_stlport4" != yes; then
  _LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
fi
;;
esac
;;

solaris*)
case $cc_basename in
CC*)
  # The more standards-conforming stlport4 library is

```

```

# incompatible with the Cstd library. Avoid specifying
# it if it's in CXXFLAGS. Ignore libCrun as
# -library=stlport4 depends on it.
case " $CXX $CXXFLAGS " in
*" -library=stlport4 "*)
    solaris_use_stlport4=yes
    ;;
esac

# Adding this requires a known-good setup of shared libraries for
# Sun compiler versions before 5.6, else PIC objects from an old
# archive will be linked into the output, leading to subtle bugs.
if test "$solaris_use_stlport4" != yes; then
    _LT_AC_TAGVAR(postdeps,$1)='-library=Cstd -library=Crun'
fi
;;
esac
;;
esac
)
case " $_LT_AC_TAGVAR(postdeps, $1) " in
*" -lc "*) _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no ;;
esac
)# AC_LIBTOOL_POSTDEP_PREDEP

# AC_LIBTOOL_LANG_F77_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_F77_CONFIG], [_LT_AC_LANG_F77_CONFIG(F77)])
AC_DEFUN([_LT_AC_LANG_F77_CONFIG],
[AC_REQUIRE([AC_PROG_F77])
AC_LANG_PUSH(Fortran 77)

_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=no
_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=

```

```

_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds
_LT_AC_TAGVAR(no_undefined_flag, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no

# Source file extension for f77 test sources.
ac_ext=f

# Object file extension for compiled f77 test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="\
    subroutine t
    return
    end
"

# Code to be used in simple link tests
lt_simple_link_test_code="\
    program t
    end
"

# Itmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${F77-"f77"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

AC_MSG_CHECKING([if libtool supports shared libraries])
AC_MSG_RESULT([$scan_build_shared])

AC_MSG_CHECKING([whether to build shared libraries])
test "$scan_build_shared" = "no" && enable_shared=no

# On AIX, shared libraries and static libraries use the same namespace, and
# are all built from PIC.

```



```

case $host_os in
aix3*)
test "$enable_shared" = yes && enable_static=no
if test -n "$RANLIB"; then
  archive_cmds="$archive_cmds~\${RANLIB} \${lib}"
  postinstall_cmds="$RANLIB \${lib}"
fi
;;
aix[[4-9]]*)
if test "$host_cpu" != ia64 && test "$aix_use_runtimelinking" = no ; then
  test "$enable_shared" = yes && enable_static=no
fi
;;
esac
AC_MSG_RESULT([$enable_shared])

AC_MSG_CHECKING([whether to build static libraries])
# Make sure either enable_shared or enable_static is yes.
test "$enable_shared" = yes || enable_static=yes
AC_MSG_RESULT([$enable_static])

_LT_AC_TAGVAR(GCC, $1)="$G77"
_LT_AC_TAGVAR(LD, $1)="$LD"

AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_POP
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_F77_CONFIG

# AC_LIBTOOL_LANG_GCJ_CONFIG
# -----
# Ensure that the configuration vars for the C compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_GCJ_CONFIG], [_LT_AC_LANG_GCJ_CONFIG(GCJ)])
AC_DEFUN([_LT_AC_LANG_GCJ_CONFIG],
[AC_LANG_SAVE

```

```

ac_ext=java

# Object file extension for compiled Java test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code="class foo { }"

# Code to be used in simple link tests
lt_simple_link_test_code='public class confest { public static void main(String[][] argv) {}; }'

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${GCJ-"gcj"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])

# GCJ did not exist at the time GCC didn't implicitly link libc in.
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no

_LT_AC_TAGVAR(old_archive_cmds, $1)=$old_archive_cmds

AC_LIBTOOL_PROG_COMPILER_NO_RTTI($1)
AC_LIBTOOL_PROG_COMPILER_PIC($1)
AC_LIBTOOL_PROG_CC_C_O($1)
AC_LIBTOOL_SYS_HARD_LINK_LOCKS($1)
AC_LIBTOOL_PROG_LD_SHLIBS($1)
AC_LIBTOOL_SYS_DYNAMIC_LINKER($1)
AC_LIBTOOL_PROG_LD_HARDCODE_LIBPATH($1)

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_GCJ_CONFIG

# AC_LIBTOOL_LANG_RC_CONFIG
# -----

```

```

# Ensure that the configuration vars for the Windows resource compiler are
# suitably defined. Those variables are subsequently used by
# AC_LIBTOOL_CONFIG to write the compiler configuration to 'libtool'.
AC_DEFUN([AC_LIBTOOL_LANG_RC_CONFIG], [_LT_AC_LANG_RC_CONFIG(RC)])
AC_DEFUN([_LT_AC_LANG_RC_CONFIG],
[AC_LANG_SAVE

# Source file extension for RC test sources.
ac_ext=rc

# Object file extension for compiled RC test sources.
objext=o
_LT_AC_TAGVAR(objext, $1)=$objext

# Code to be used in simple compile tests
lt_simple_compile_test_code='sample MENU { MENUITEM "&Soup", 100, CHECKED }'

# Code to be used in simple link tests
lt_simple_link_test_code="$lt_simple_compile_test_code"

# ltmain only uses $CC for tagged configurations so make sure $CC is set.
_LT_AC_SYS_COMPILER

# save warnings/boilerplate of simple test code
_LT_COMPILER_BOILERPLATE
_LT_LINKER_BOILERPLATE

# Allow CC to be a program name with arguments.
lt_save_CC="$CC"
CC=${RC-"windres"}
compiler=$CC
_LT_AC_TAGVAR(compiler, $1)=$CC
_LT_CC_BASENAME([$compiler])
_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)=yes

AC_LIBTOOL_CONFIG($1)

AC_LANG_RESTORE
CC="$lt_save_CC"
])# AC_LIBTOOL_LANG_RC_CONFIG

# AC_LIBTOOL_CONFIG([TAGNAME])
# -----
# If TAGNAME is not passed, then create an initial libtool script
# with a default configuration from the untagged config vars. Otherwise
# add code to config.status for appending the configuration named by
# TAGNAME from the matching tagged config vars.

```

```

AC_DEFUN([AC_LIBTOOL_CONFIG],
[# The else clause should only fire when bootstrapping the
# libtool distribution, otherwise you forgot to ship ltmain.sh
# with your package, and you will get complaints that there are
# no rules to generate ltmain.sh.
if test -f "$ltmain"; then
# See if we are running on zsh, and set the options which allow our commands through
# without removal of \ escapes.
if test -n "${ZSH_VERSION+set}"; then
  setopt NO_GLOB_SUBST
fi
# Now quote all the things that may contain metacharacters while being
# careful not to overquote the AC_SUBSTed values. We take copies of the
# variables and quote the copies for generation of the libtool script.
for var in echo old_CC old_CFLAGS AR AR_FLAGS EGREP RANLIB LN_S LTCC LTCFLAGS NM \
  SED SHELL STRIP \
  libname_spec library_names_spec soname_spec extract_expsyms_cmds \
  old_strip lib strip lib file_magic_cmd finish_cmds finish_eval \
  deplibs_check_method reload_flag reload_cmds need_locks \
  lt_cv_sys_global_symbol_pipe lt_cv_sys_global_symbol_to_cdecl \
  lt_cv_sys_global_symbol_to_c_name_address \
  sys_lib_search_path_spec sys_lib_dlsearch_path_spec \
  old_postinstall_cmds old_postuninstall_cmds \
  _LT_AC_TAGVAR(compiler, $1) \
  _LT_AC_TAGVAR(CC, $1) \
  _LT_AC_TAGVAR(LD, $1) \
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1) \
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1) \
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1) \
  _LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1) \
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1) \
  _LT_AC_TAGVAR(thread_safe_flag_spec, $1) \
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1) \
  _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1) \
  _LT_AC_TAGVAR(old_archive_cmds, $1) \
  _LT_AC_TAGVAR(old_archive_from_new_cmds, $1) \
  _LT_AC_TAGVAR(predep_objects, $1) \
  _LT_AC_TAGVAR(postdep_objects, $1) \
  _LT_AC_TAGVAR(predeps, $1) \
  _LT_AC_TAGVAR(postdeps, $1) \
  _LT_AC_TAGVAR(compiler_lib_search_path, $1) \
  _LT_AC_TAGVAR(compiler_lib_search_dirs, $1) \
  _LT_AC_TAGVAR(archive_cmds, $1) \
  _LT_AC_TAGVAR(archive_expsym_cmds, $1) \
  _LT_AC_TAGVAR(postinstall_cmds, $1) \
  _LT_AC_TAGVAR(postuninstall_cmds, $1) \
  _LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1) \
  _LT_AC_TAGVAR(allow_undefined_flag, $1) \

```



```

cat <<__EOF__ >> "$cfgfile"
ifelse([$1], [],
[#! $SHELL

# 'Secho "$cfgfile" | sed 's%^.*/%%' - Provide generalized library-building support services.
# Generated automatically by $PROGRAM (GNU $PACKAGE $VERSION$TIMESTAMP)
# NOTE: Changes made to this file will be lost: look at ltmain.sh.
#
# Copyright (C) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008
# Free Software Foundation, Inc.
#
# This file is part of GNU Libtool:
# Originally by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
#
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#
# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# A sed program that does not truncate output.
SED=${t_SED}

# Sed that helps us avoid accidentally triggering echo(1) options like -n.
Xsed="$SED -e 1s/^X//"

# The HP-UX ksh and POSIX shell print the target directory to stdout
# if CDPATH is set.
(unset CDPATH) >/dev/null 2>&1 && unset CDPATH

# The names of the tagged configurations supported by this script.
available_tags=

### BEGIN LIBTOOL CONFIG],

```

```

[# ### BEGIN LIBTOOL TAG CONFIG: $tagname)

# Libtool was configured on host '(hostname || uname -n) 2>/dev/null | sed 1q':

# Shell to use when invoking shell scripts.
SHELL=${lt_SHELL}

# Whether or not to build shared libraries.
build_libtool_libs=${enable_shared}

# Whether or not to build static libraries.
build_old_libs=${enable_static}

# Whether or not to add -lc for building shared libraries.
build_libtool_need_lc=${LT_AC_TAGVAR(archive_cmds_need_lc, $1)}

# Whether or not to disallow shared libs when runtime libs are static
allow_libtool_libs_with_static_runtimes=${LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)}

# Whether or not to optimize for fast installation.
fast_install=${enable_fast_install}

# The host system.
host_alias=${host_alias}
host=${host}
host_os=${host_os}

# The build system.
build_alias=${build_alias}
build=${build}
build_os=${build_os}

# An echo program that does not interpret backslashes.
echo=${lt_echo}

# The archiver.
AR=${lt_AR}
AR_FLAGS=${lt_AR_FLAGS}

# A C compiler.
LTCC=${lt_LTCC}

# LTCC compiler flags.
LTCFLAGS=${lt_LTCFLAGS}

# A language-specific compiler.
CC=${lt_[]_LT_AC_TAGVAR(compiler, $1)}

```

```
# Is the compiler the GNU C compiler?
with_gcc=$_LT_AC_TAGVAR(GCC, $1)

# An ERE matcher.
EGREP=$_lt_EGREP

# The linker used to build libraries.
LD=$_lt_[]_LT_AC_TAGVAR(LD, $1)

# Whether we need hard or soft links.
LN_S=$_lt_LN_S

# A BSD-compatible nm program.
NM=$_lt_NM

# A symbol stripping program
STRIP=$_lt_STRIP

# Used to examine libraries when file_magic_cmd begins "file"
MAGIC_CMD=$MAGIC_CMD

# Used on cygwin: DLL creation program.
DLLTOOL="$DLLTOOL"

# Used on cygwin: object dumper.
OBJDUMP="$OBJDUMP"

# Used on cygwin: assembler.
AS="$AS"

# The name of the directory that contains temporary libtool files.
objdir=$objdir

# How to create reloadable object files.
reload_flag=$_lt_reload_flag
reload_cmds=$_lt_reload_cmds

# How to pass a linker flag through the compiler.
wl=$_lt_[]_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)

# Object file suffix (normally "o").
objext="$ac_objext"

# Old archive suffix (normally "a").
libext="$libext"

# Shared library suffix (normally ".so").
shrext_cmds='shrext_cmds'
```



```

# Executable file suffix (normally "").
exeext="$exeext"

# Additional compiler flags for building library objects.
pic_flag=$lt[]_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
pic_mode=$pic_mode

# What is the maximum length of a command?
max_cmd_len=$lt_cv_sys_max_cmd_len

# Does compiler simultaneously support -c and -o options?
compiler_c_o=$lt[]_LT_AC_TAGVAR(lt_cv_prog_compiler_c_o, $1)

# Must we lock files when doing compilation?
need_locks=$lt_need_locks

# Do we need the lib prefix for modules?
need_lib_prefix=$need_lib_prefix

# Do we need a version for libraries?
need_version=$need_version

# Whether dlopen is supported.
dlopen_support=$enable_dlopen

# Whether dlopen of programs is supported.
dlopen_self=$enable_dlopen_self

# Whether dlopen of statically linked programs is supported.
dlopen_self_static=$enable_dlopen_self_static

# Compiler flag to prevent dynamic linking.
link_static_flag=$lt[]_LT_AC_TAGVAR(lt_prog_compiler_static, $1)

# Compiler flag to turn off builtin functions.
no_builtin_flag=$lt[]_LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)

# Compiler flag to allow reflexive dlopens.
export_dynamic_flag_spec=$lt[]_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)

# Compiler flag to generate shared objects directly from archives.
whole_archive_flag_spec=$lt[]_LT_AC_TAGVAR(whole_archive_flag_spec, $1)

# Compiler flag to generate thread-safe objects.
thread_safe_flag_spec=$lt[]_LT_AC_TAGVAR(thread_safe_flag_spec, $1)

# Library versioning type.

```

```

version_type=$version_type

# Format of library name prefix.
libname_spec=$lt_libname_spec

# List of archive names. First name is the real one, the rest are links.
# The last name is the one that the linker finds with -INAME.
library_names_spec=$lt_library_names_spec

# The coded name of the library, if different from the real name.
soname_spec=$lt_soname_spec

# Commands used to build and install an old-style archive.
RANLIB=$lt_RANLIB
old_archive_cmds=$lt[]_LT_AC_TAGVAR(old_archive_cmds, $1)
old_postinstall_cmds=$lt_old_postinstall_cmds
old_postuninstall_cmds=$lt_old_postuninstall_cmds

# Create an old-style archive from a shared archive.
old_archive_from_new_cmds=$lt[]_LT_AC_TAGVAR(old_archive_from_new_cmds, $1)

# Create a temporary old-style archive to link instead of a shared archive.
old_archive_from_expsyms_cmds=$lt[]_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)

# Commands used to build and install a shared archive.
archive_cmds=$lt[]_LT_AC_TAGVAR(archive_cmds, $1)
archive_expsym_cmds=$lt[]_LT_AC_TAGVAR(archive_expsym_cmds, $1)
postinstall_cmds=$lt_postinstall_cmds
postuninstall_cmds=$lt_postuninstall_cmds

# Commands used to build a loadable module (assumed same as above if empty)
module_cmds=$lt[]_LT_AC_TAGVAR(module_cmds, $1)
module_expsym_cmds=$lt[]_LT_AC_TAGVAR(module_expsym_cmds, $1)

# Commands to strip libraries.
old_striplib=$lt_old_striplib
striplib=$lt_striplib

# Dependencies to place before the objects being linked to create a
# shared library.
predep_objects=$lt[]_LT_AC_TAGVAR(predep_objects, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdep_objects=$lt[]_LT_AC_TAGVAR(postdep_objects, $1)

# Dependencies to place before the objects being linked to create a
# shared library.

```

```

predeps=${lt_[]_LT_AC_TAGVAR(predeps, $1)

# Dependencies to place after the objects being linked to create a
# shared library.
postdeps=${lt_[]_LT_AC_TAGVAR(postdeps, $1)

# The directories searched by this compiler when creating a shared
# library
compiler_lib_search_dirs=${lt_[]_LT_AC_TAGVAR(compiler_lib_search_dirs, $1)

# The library search path used internally by the compiler when linking
# a shared library.
compiler_lib_search_path=${lt_[]_LT_AC_TAGVAR(compiler_lib_search_path, $1)

# Method to check whether dependent libraries are shared objects.
deplibs_check_method=${lt_deplibs_check_method}

# Command to use when deplibs_check_method == file_magic.
file_magic_cmd=${lt_file_magic_cmd}

# Flag that allows shared libraries with undefined symbols to be built.
allow_undefined_flag=${lt_[]_LT_AC_TAGVAR(allow_undefined_flag, $1)

# Flag that forces no undefined symbols.
no_undefined_flag=${lt_[]_LT_AC_TAGVAR(no_undefined_flag, $1)

# Commands used to finish a libtool library installation in a directory.
finish_cmds=${lt_finish_cmds}

# Same as above, but a single script fragment to be eval'd but not shown.
finish_eval=${lt_finish_eval}

# Take the output of nm and produce a listing of raw symbols and C names.
global_symbol_pipe=${lt_lt_cv_sys_global_symbol_pipe}

# Transform the output of nm in a proper C declaration
global_symbol_to_cdecl=${lt_lt_cv_sys_global_symbol_to_cdecl}

# Transform the output of nm in a C name address pair
global_symbol_to_c_name_address=${lt_lt_cv_sys_global_symbol_to_c_name_address}

# This is the shared library runtime path variable.
runpath_var=${runpath_var}

# This is the shared library path variable.
shlibpath_var=${shlibpath_var}

# Is shlibpath searched before the hard-coded library search path?

```

```

shlibpath_overrides_runpath=$shlibpath_overrides_runpath

# How to hardcode a shared library path into an executable.
hardcode_action=$_LT_AC_TAGVAR(hardcode_action, $1)

# Whether we should hardcode library paths into libraries.
hardcode_into_libs=$hardcode_into_libs

# Flag to hardcode \${libdir} into a binary during linking.
# This must work even if \${libdir} does not exist.
hardcode_libdir_flag_spec=$lt[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)

# If ld is used when linking, flag to hardcode \${libdir} into
# a binary during linking. This must work even if \${libdir} does
# not exist.
hardcode_libdir_flag_spec_ld=$lt[]_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)

# Whether we need a single -rpath flag with a separated argument.
hardcode_libdir_separator=$lt[]_LT_AC_TAGVAR(hardcode_libdir_separator, $1)

# Set to yes if using DIR/libNAME${shared_ext} during linking hardcodes DIR into the
# resulting binary.
hardcode_direct=$_LT_AC_TAGVAR(hardcode_direct, $1)

# Set to yes if using the -LDIR flag during linking hardcodes DIR into the
# resulting binary.
hardcode_minus_L=$_LT_AC_TAGVAR(hardcode_minus_L, $1)

# Set to yes if using SHLIBPATH_VAR=DIR during linking hardcodes DIR into
# the resulting binary.
hardcode_shlibpath_var=$_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)

# Set to yes if building a shared library automatically hardcodes DIR into the library
# and all subsequent libraries and executables linked against it.
hardcode_automatic=$_LT_AC_TAGVAR(hardcode_automatic, $1)

# Variables whose values should be saved in libtool wrapper scripts and
# restored at relink time.
variables_saved_for_relink="$variables_saved_for_relink"

# Whether libtool must link a program against all its dependency libraries.
link_all_deplibs=$_LT_AC_TAGVAR(link_all_deplibs, $1)

# Compile-time system search path for libraries
sys_lib_search_path_spec=$lt_sys_lib_search_path_spec

# Run-time system search path for libraries
sys_lib_dlsearch_path_spec=$lt_sys_lib_dlsearch_path_spec

```

```

# Fix the shell variable \${srcfile} for the compiler.
fix_srcfile_path=${lt_fix_srcfile_path}

# Set to yes if exported symbols are required.
always_export_symbols=${LT_AC_TAGVAR(always_export_symbols, $1)}

# The commands to list exported symbols.
export_symbols_cmds=${lt_[]_LT_AC_TAGVAR(export_symbols_cmds, $1)}

# The commands to extract the exported symbol list from a shared archive.
extract_expsyms_cmds=${lt_extract_expsyms_cmds}

# Symbols that should not be listed in the preloaded symbols.
exclude_expsyms=${lt_[]_LT_AC_TAGVAR(exclude_expsyms, $1)}

# Symbols that must always be exported.
include_expsyms=${lt_[]_LT_AC_TAGVAR(include_expsyms, $1)}

ifelse([$1],[],
[# ### END LIBTOOL CONFIG],
[# ### END LIBTOOL TAG CONFIG: $tagname])

__EOF__

ifelse([$1],[], [
case $host_os in
aix3*)
  cat <<\EOF >> "$cfgfile"

# AIX sometimes has problems with the GCC collect2 program. For some
# reason, if we set the COLLECT_NAMES environment variable, the problems
# vanish in a puff of smoke.
if test "X${COLLECT_NAMES+set}" != Xset; then
  COLLECT_NAMES=
  export COLLECT_NAMES
fi
EOF
;;
esac

# We use sed instead of cat because bash on DJGPP gets confused if
# if finds mixed CR/LF and LF-only lines. Since sed operates in
# text mode, it properly converts lines to CR/LF. This bash problem
# is reportedly fixed, but why not run on old versions too?
sed 'sq' "$ltmain" >> "$cfgfile" || (rm -f "$cfgfile"; exit 1)

mv -f "$cfgfile" "$ofile" || \

```

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    (rm -f "$ofile" && cp "$cfgfile" "$ofile" && rm -f "$cfgfile")
    chmod +x "$ofile"
)
else
# If there is no Makefile yet, we rely on a make rule to execute
# 'config.status --recheck' to rerun these tests and create the
# libtool script then.
ltmain_in='echo $ltmain | sed -e 's/\,sh$/\,in/'
if test -f "$ltmain_in"; then
    test -f Makefile && make "$ltmain"
fi
fi
)]# AC_LIBTOOL_CONFIG

# AC_LIBTOOL_PROG_COMPILER_NO_RTTI([TAGNAME])
# -----
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_NO_RTTI],
[AC_REQUIRE([_LT_AC_SYS_COMPILER])dnl

_LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag, $1)=

if test "$GCC" = yes; then
    _LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag, $1)=' -fno-builtin'

AC_LIBTOOL_COMPILER_OPTION([if $compiler supports -fno-rtti -fno-exceptions],
    lt_cv_prog_compiler_rtti_exceptions,
    [-fno-rtti -fno-exceptions], [],
    [_LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag,
$1)="$_LT_AC_TAGVAR(lt_prog_compiler_no_built_in_flag, $1) -fno-rtti -fno-exceptions"])
fi
)]# AC_LIBTOOL_PROG_COMPILER_NO_RTTI

# AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE
# -----
AC_DEFUN([AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE],
[AC_REQUIRE([AC_CANONICAL_HOST])
AC_REQUIRE([LT_AC_PROG_SED])
AC_REQUIRE([AC_PROG_NM])
AC_REQUIRE([AC_OBJEXT])
# Check for command to grab the raw symbol name followed by C symbol from nm.
AC_MSG_CHECKING([command to parse $NM output from $compiler object])
AC_CACHE_VAL([lt_cv_sys_global_symbol_pipe],
[
# These are sane defaults that work on at least a few old systems.
# [They come from Ultrix. What could be older than Ultrix?!! ;)]

```

```

# Character class describing NM global symbol codes.
symcode='[[BCDEGRST]]'

# Regexp to match symbols that can be accessed directly from C.
sympat='\([[A-Za-z]][[A-Za-z0-9]]*\)'

# Transform an extracted symbol line into a proper C declaration
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^\. * \(.*)$/extern int \1;/p'"

# Transform an extracted symbol line into symbol name and symbol address
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^\: \([[^ ]]*\) $/ {\|\|"1\|\|", (lt_ptr) 0},/p' -e 's/^\$symcode \([[^ ]]*\) \([[^ ]]*\)$/ {\|"2\|", (lt_ptr) \&\2},/p"'

# Define system-specific variables.
case $host_os in
aix*)
symcode='[[BCDT]]'
;;
cygwin* | mingw* | pw32*)
symcode='[[ABCDGISTW]]'
;;
hpux*) # Its linker distinguishes data from code symbols
if test "$host_cpu" = ia64; then
symcode='[[BCDEGRST]]'
fi
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^\T . * \(.*)$/extern int \1();/p' -e 's/^\$symcode* . * \(.*)$/extern char \1;/p'"
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^\: \([[^ ]]*\) $/ {\|\|"1\|\|", (lt_ptr) 0},/p' -e 's/^\$symcode* \([[^ ]]*\) \([[^ ]]*\)$/ {\|"2\|", (lt_ptr) \&\2},/p"'
;;
linux* | k*bsd*-gnu)
if test "$host_cpu" = ia64; then
symcode='[[ABCDGIRSTW]]'
lt_cv_sys_global_symbol_to_cdecl="sed -n -e 's/^\T . * \(.*)$/extern int \1();/p' -e 's/^\$symcode* . * \(.*)$/extern char \1;/p'"
lt_cv_sys_global_symbol_to_c_name_address="sed -n -e 's/^\: \([[^ ]]*\) $/ {\|\|"1\|\|", (lt_ptr) 0},/p' -e 's/^\$symcode* \([[^ ]]*\) \([[^ ]]*\)$/ {\|"2\|", (lt_ptr) \&\2},/p"'
fi
;;
irix* | nonstopux*)
symcode='[[BCDEGRST]]'
;;
osf*)
symcode='[[BCDEGQRST]]'
;;
solaris*)
symcode='[[BDRT]]'
;;

```

```

sco3.2v5*)
symcode='[[DT]]'
;;
sysv4.2uw2*)
symcode='[[DT]]'
;;
sysv5* | sco5v6* | unixware* | OpenUNIX*)
symcode='[[ABDT]]'
;;
sysv4)
symcode='[[DFNSTU]]'
;;
esac

# Handle CRLF in mingw tool chain
opt_cr=
case $build_os in
mingw*)
opt_cr='echo 'x\{0,1\}' | tr x '\015' # option cr in regexp
;;
esac

# If we're using GNU nm, then use its standard symbol codes.
case '$NM -V 2>&1' in
*GNU* | *with BFD*)
symcode='[[ABCDGIRSTW]]' ;;
esac

# Try without a prefix underscore, then with it.
for ac_symprfx in "" "_"; do

# Transform symcode, sympat, and symprfx into a raw symbol and a C symbol.
symxfrm="\1 $ac_symprfx\2 \2"

# Write the raw and C identifiers.
lt_cv_sys_global_symbol_pipe="sed -n -e 's/^\.*[[ ]]($symcode$symcode*)[[ ]][[
]]*$ac_symprfx$sympat$opt_cr$/symxfrm/p'"

# Check to see that the pipe works correctly.
pipe_works=no

rm -f conftest*
cat > conftest.$ac_ext <<EOF
#ifdef __cplusplus
extern "C" {
#endif
char nm_test_var;
void nm_test_func(){

```



```

#ifdef __cplusplus
}
#endif
int main(){nm_test_var='a';nm_test_func();return(0);}
EOF

if AC_TRY_EVAL(ac_compile); then
  # Now try to grab the symbols.
  nlist=conftest.nm
  if AC_TRY_EVAL(NM conftest.$ac_objext \\ $lt_cv_sys_global_symbol_pipe \> $nlist) && test -s "$nlist"; then
    # Try sorting and uniquifying the output.
    if sort "$nlist" | uniq > "$nlist.T"; then
mv -f "$nlist.T" "$nlist"
    else
rm -f "$nlist.T"
    fi

    # Make sure that we snagged all the symbols we need.
    if grep 'nm_test_var$' "$nlist" >/dev/null; then
if grep 'nm_test_func$' "$nlist" >/dev/null; then
    cat <<EOF > conftest.$ac_ext
#ifdef __cplusplus
extern "C" {
#endif

EOF
    # Now generate the symbol file.
    eval "$lt_cv_sys_global_symbol_to_cdecl" < "$nlist" | grep -v main >> conftest.$ac_ext

    cat <<EOF >> conftest.$ac_ext
#ifdef __STDC__ && __STDC__
# define lt_ptr_t void *
#else
# define lt_ptr_t char *
# define const
#endif

/* The mapping between symbol names and symbols. */
const struct {
  const char *name;
  lt_ptr_t address;
}
lt_preloaded_symbols[[]] =
{
EOF
  $$SED "s/^\$symcode\$symcode* \\.*) \\.*)$/ {\"2\", (lt_ptr_t) \&2},/" < "$nlist" | grep -v main >>
conftest.$ac_ext
    cat <<EOF >> conftest.$ac_ext

```

```

{0, (lt_ptr_t) 0}
};

#ifdef __cplusplus
}
#endif
EOF
# Now try linking the two files.
mv conftest.$ac_objext confstm.$ac_objext
lt_save_LIBS="$LIBS"
lt_save_CFLAGS="$CFLAGS"
LIBS="confstm.$ac_objext"
CFLAGS="$CFLAGS$LT_AC_TAGVAR(lt_prog_compiler_no_builtin_flag, $1)"
if AC_TRY_EVAL(ac_link) && test -s conftest${ac_exeext}; then
  pipe_works=yes
fi
LIBS="$lt_save_LIBS"
CFLAGS="$lt_save_CFLAGS"
else
  echo "cannot find nm_test_func in $nlist" >&AS_MESSAGE_LOG_FD
fi
  else
echo "cannot find nm_test_var in $nlist" >&AS_MESSAGE_LOG_FD
  fi
  else
  echo "cannot run $lt_cv_sys_global_symbol_pipe" >&AS_MESSAGE_LOG_FD
fi
else
  echo "$progname: failed program was:" >&AS_MESSAGE_LOG_FD
  cat conftest.$ac_ext >&5
fi
rm -rf conftest* confstm*

# Do not use the global_symbol_pipe unless it works.
if test "$pipe_works" = yes; then
  break
else
  lt_cv_sys_global_symbol_pipe=
fi
done
)
if test -z "$lt_cv_sys_global_symbol_pipe"; then
  lt_cv_sys_global_symbol_to_cdecl=
fi
if test -z "$lt_cv_sys_global_symbol_pipe$lt_cv_sys_global_symbol_to_cdecl"; then
  AC_MSG_RESULT(failed)
else
  AC_MSG_RESULT(ok)

```

```

fi
]) # AC_LIBTOOL_SYS_GLOBAL_SYMBOL_PIPE

# AC_LIBTOOL_PROG_COMPILER_PIC([TAGNAME])
# -----
AC_DEFUN([AC_LIBTOOL_PROG_COMPILER_PIC],
[_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=

AC_MSG_CHECKING([for $compiler option to produce PIC])
ifelse([$1],[CXX],[
# C++ specific cases for pic, static, wl, etc.
if test "$GXX" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'

case $host_os in
aix*)
  # All AIX code is PIC.
  if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
;;
amigaos*)
# FIXME: we need at least 68020 code to build shared libraries, but
# adding the '-m68020' flag to GCC prevents building anything better,
# like '-m68040'.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
;;
beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
# PIC is the default for these OSes.
;;
mingw* | cygwin* | os2* | pw32*)
# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for example).
# Although the cygwin gcc ignores -fPIC, still need this for old-style
# (--disable-auto-import) libraries
m4_if([$1], [GCJ], [],
[_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
;;
darwin* | rhapsody*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
;;

```

```

*djgpp*)
# DJGPP does not support shared libraries at all
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
;;
interix[[3-9]])*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;
sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi
;;
hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
else
case $host_os in
aix[[4-9]])*)
# All AIX code is PIC.
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
else
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bI:/lib/syscalls.exp'
fi
;;
chorus*)
case $cc_basename in
cxch68*)
# Green Hills C++ Compiler
# _LT_AC_TAGVAR(lt_prog_compiler_static, $1)="--no_auto_instantiation -u __main -u __premain -u _abort -r
$COOL_DIR/lib/libOrb.a $MVME_DIR/lib/CC/libC.a $MVME_DIR/lib/classix/libcx.s.a"
;;
esac
;;

```

```

darwin*)
# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
case $cc_basename in
  xlc*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    ;;
  esac
;;
dgux*)
case $cc_basename in
ec++*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  ;;
ghcx*)
# Green Hills C++ Compiler
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
;;
*)
;;
esac
;;
freebsd* | dragonfly*)
# FreeBSD uses GNU C++
;;
hpux9* | hpux10* | hpux11*)
case $cc_basename in
CC*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
  if test "$host_cpu" != ia64; then
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
  fi
  ;;
aCC*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
  case $host_cpu in
  hppa*64*|ia64*)
    # +Z the default
    ;;
  *)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
    ;;
  esac
;;
*)

```

```

;;
esac
;;
interix*)
# This is c89, which is MS Visual C++ (no shared libs)
# Anyone wants to do a port?
;;
irix5* | irix6* | nonstopux*)
case $cc_basename in
CC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
# CC pic flag -KPIC is the default.
;;
*)
;;
esac
;;
linux* | k*bsd*-gnu)
case $cc_basename in
KCC*)
# KAI C++ Compiler
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='--backend -Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
icpc* | ecpc*)
# Intel C++
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
;;
pgCC* | pgcpp*)
# Portland Group C++ compiler.
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
cxx*)
# Compaq C++
# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
*)
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
# Sun C++ 5.9

```

```

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
;;
esac
;;
esac
;;
lynxos*)
;;
m88k*)
;;
mvs*)
case $cc_basename in
cxx*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-W c,exportall'
;;
*)
;;
esac
;;
netbsd*)
;;
osf3* | osf4* | osf5*)
case $cc_basename in
KCC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='--backend -Wl,'
;;
RCC*)
# Rational C++ 2.4.1
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
;;
cxx*)
# Digital/Compaq C++
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
# Make sure the PIC flag is empty. It appears that all Alpha
# Linux and Compaq Tru64 Unix objects are PIC.
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
*)
;;
esac
;;
psos*)
;;
solaris*)
case $cc_basename in

```

```

CC*)
# Sun C++ 4.2, 5.x and Centerline C++
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
;;
gcx*)
# Green Hills C++ Compiler
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
;;
*)
;;
esac
;;
sunos4*)
case $cc_basename in
CC*)
# Sun C++ 4.x
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
lcc*)
# Lucid
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
;;
*)
;;
esac
;;
tandem*)
case $cc_basename in
NCC*)
# NonStop-UX NCC 3.20
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
;;
*)
;;
esac
;;
sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
case $cc_basename in
CC*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
esac
;;

```



```

vxworks*)
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;
esac
fi
],
[
if test "$GCC" = yes; then
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'

case $host_os in
aix*)
  # All AIX code is PIC.
  if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  fi
  ;;

amigaos*)
  # FIXME: we need at least 68020 code to build shared libraries, but
  # adding the '-m68020' flag to GCC prevents building anything better,
  # like '-m68040'.
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-m68020 -resident32 -malways-restore-a4'
  ;;

beos* | irix5* | irix6* | nonstopux* | osf3* | osf4* | osf5*)
  # PIC is the default for these OSes.
  ;;

mingw* | cygwin* | pw32* | os2*)
  # This hack is so that the source file can tell whether it is being
  # built for inclusion in a dll (and should export symbols for example).
  # Although the cygwin gcc ignores -fPIC, still need this for old-style
  # (--disable-auto-import) libraries
  m4_if([$1], [GCJ], [],
[_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
  ;;

darwin* | rhapsody*)
  # PIC is the default on this platform
  # Common symbols not allowed in MH_DYLIB files
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fno-common'
  ;;

```

```

interix[[3-9]]*)
# Interix 3.x gcc -fpic/-fPIC options generate broken code.
# Instead, we relocate shared libraries at runtime.
;;

msdosdjgpp*)
# Just because we use GCC doesn't mean we suddenly get shared libraries
# on systems that don't support them.
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
enable_shared=no
;;

sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=-Kconform_pic
fi
;;

hpux*)
# PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
# not for PA HP-UX.
case $host_cpu in
hppa*64*|ia64*)
# +Z the default
;;
*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
;;

*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fPIC'
;;
esac
else
# PORTME Check for flag to pass linker flags through the system compiler.
case $host_os in
aix*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
if test "$host_cpu" = ia64; then
# AIX 5 now supports IA64 processor
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
else
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-bnso -bI:/lib/syscalls.exp'
fi
;;
darwin*)

```

```

# PIC is the default on this platform
# Common symbols not allowed in MH_DYLIB files
case $cc_basename in
  xlc*)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-qnocommon'
    _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
    ;;
  esac
;;

mingw* | cygwin* | pw32* | os2*)
# This hack is so that the source file can tell whether it is being
# built for inclusion in a dll (and should export symbols for example).
m4_if([$1], [GCJ], [],
[_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-DDLL_EXPORT'])
;;

hpux9* | hpux10* | hpux11*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC is the default for IA64 HP-UX and 64-bit HP-UX, but
  # not for PA HP-UX.
  case $host_cpu in
    hppa*64*|ia64*)
# +Z the default
;;
  *)
    _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='+Z'
  ;;
  esac
# Is there a better lt_prog_compiler_static that works with the bundled CC?
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='${wl}-a ${wl}archive'
;;

irix5* | irix6* | nonstopux*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # PIC (with -KPIC) is the default.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;

newsos6)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  ;;

linux* | k*bsd*-gnu)
  case $cc_basename in
    icc* | ecc*)
      _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'

```

```

_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-static'
;;
pgcc* | pgf77* | pgf90* | pgf95*)
  # Portland Group compilers (*not* the Pentium gcc compiler,
# which looks to be a dead project)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-fpic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;
ccc*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # All Alpha code is PIC.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
;;
*)
  case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*)
  # Sun C 5.9
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  ;;
*Sun\ F*)
  # Sun Fortran 8.3 passes all unrecognized flags to the linker
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)=''
  ;;
esac
;;
esac
;;
esac
;;

osf3* | osf4* | osf5*)
  _LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
  # All OSF/1 code is PIC.
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;

rdos*)
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-non_shared'
  ;;

solaris*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
  _LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
  case $cc_basename in

```

```

f77* | f90* | f95*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld ';;
*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,';;
esac
;;

sunos4*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Qoption ld '
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-PIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

sysv4 | sysv4.2uw2* | sysv4.3*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

sysv4*MP*)
if test -d /usr/nec ;then
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-Kconform_pic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
fi
;;

sysv5* | unixware* | sco3.2v5* | sco5v6* | OpenUNIX*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-KPIC'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

unicos*)
_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)='-Wl,'
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;

uts4*)
_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)='-pic'
_LT_AC_TAGVAR(lt_prog_compiler_static, $1)='-Bstatic'
;;

*)
_LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no
;;
esac
fi
])

```

```

AC_MSG_RESULT([$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)])

#
# Check to make sure the PIC flag actually works.
#
if test -n "$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)"; then
  AC_LIBTOOL_COMPILER_OPTION([if $compiler PIC flag $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
works],
  _LT_AC_TAGVAR(lt_cv_prog_compiler_pic_works, $1),
  [$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[ -DPIC],[ifelse([$1],[CXX],[ -DPIC],[ ])]), [],
  [case $LT_AC_TAGVAR(lt_prog_compiler_pic, $1) in
    "" | " *" ;;
    *) _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=" $LT_AC_TAGVAR(lt_prog_compiler_pic, $1)" ;;
    esac],
  [_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
  _LT_AC_TAGVAR(lt_prog_compiler_can_build_shared, $1)=no])
fi
case $host_os in
# For platforms which do not support PIC, -DPIC is meaningless:
*djgpp*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)=
  ;;
*)
  _LT_AC_TAGVAR(lt_prog_compiler_pic, $1)="$LT_AC_TAGVAR(lt_prog_compiler_pic, $1)ifelse([$1],[ -
DPIC],[ifelse([$1],[CXX],[ -DPIC],[ ])])"
  ;;
esac

#
# Check to make sure the static flag actually works.
#
wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1) eval
lt_tmp_static_flag="\$LT_AC_TAGVAR(lt_prog_compiler_static, $1)\\"
AC_LIBTOOL_LINKER_OPTION([if $compiler static flag $lt_tmp_static_flag works],
  _LT_AC_TAGVAR(lt_cv_prog_compiler_static_works, $1),
  $lt_tmp_static_flag,
  [],
  [_LT_AC_TAGVAR(lt_prog_compiler_static, $1)=])
])

# AC_LIBTOOL_PROG_LD_SHLIBS([TAGNAME])
# -----
# See if the linker supports building shared libraries.
AC_DEFUN([AC_LIBTOOL_PROG_LD_SHLIBS],
[AC_REQUIRE([LT_AC_PROG_SED])dnl
AC_MSG_CHECKING([whether the $compiler linker ($LD) supports shared libraries])
ifelse([$1],[CXX],[

```

```

_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED '\$/.*/\
//\' | sort | uniq > $export_symbols'
case $host_os in
aix[[4-9]]*)
# If we're using GNU nm, then we don't want the "-C" option.
# -C means demangle to AIX nm, but means don't demangle with GNU nm
if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -Bpg $libobjs $convenience | awk '{ if ((([$]2 == "T")
|| ([$]2 == "D") || ([$]2 == "B")) && ([substr]([[$]3,1,1) != ".")) { print \[$]3 } }\' | sort -u > $export_symbols'
else
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -BCpg $libobjs $convenience | awk '{ if ((([$]2 ==
"T") || ([$]2 == "D") || ([$]2 == "B")) && ([substr]([[$]3,1,1) != ".")) { print \[$]3 } }\' | sort -u >
$export_symbols'
fi
;;
pw32*)
_LT_AC_TAGVAR(export_symbols_cmds, $1)="$ldll_cmds"
;;
cygwin* | mingw*)
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED -e
\'/^\[[BCDGRS]\][ ]/s/.*[ ]\([^\ ]*\)\^1 DATA;/^.*[ ]__nm_/s/^\.[ ]__nm_\([^\ ]*\)\[ ]\([^\ ]*\)\^1
DATA;/^I[ ]/d;/^[[AITW]][ ]/s/.*[ ]//\' | sort | uniq > $export_symbols'
;;
*)
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED
\'s/.*//\' | sort | uniq > $export_symbols'
;;
esac
_LT_AC_TAGVAR(exclude_expsyms, $1)='_GLOBAL_OFFSET_TABLE_|_GLOBAL__F[ID].*'
],[
runpath_var=
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=no
_LT_AC_TAGVAR(archive_cmds, $1)=
_LT_AC_TAGVAR(archive_expsym_cmds, $1)=
_LT_AC_TAGVAR(old_archive_From_new_cmds, $1)=
_LT_AC_TAGVAR(old_archive_from_expsyms_cmds, $1)=
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
_LT_AC_TAGVAR(thread_safe_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)=
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_minus_L, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(link_all_deplibs, $1)=unknown
_LT_AC_TAGVAR(hardcode_automatic, $1)=no

```

```

_LT_AC_TAGVAR(module_cmds, $1)=
_LT_AC_TAGVAR(module_expsym_cmds, $1)=
_LT_AC_TAGVAR(always_export_symbols, $1)=no
_LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED \"s/.*/
//\" | sort | uniq > $export_symbols'
# include_expsyms should be a list of space-separated symbols to be *always*
# included in the symbol list
_LT_AC_TAGVAR(include_expsyms, $1)=
# exclude_expsyms can be an extended regexp of symbols to exclude
# it will be wrapped by ' (' and ')$', so one must not match beginning or
# end of line. Example: 'a|bc|.d.*' will exclude the symbols 'a' and 'bc',
# as well as any symbol that contains 'd'.
_LT_AC_TAGVAR(exclude_expsyms, $1)='_GLOBAL_OFFSET_TABLE_|_GLOBAL__F[ID]_.*'
# Although _GLOBAL_OFFSET_TABLE_ is a valid symbol C name, most a.out
# platforms (ab)use it in PIC code, but their linkers get confused if
# the symbol is explicitly referenced. Since portable code cannot
# rely on this symbol name, it's probably fine to never include it in
# preloaded symbol tables.
# Exclude shared library initialization/finalization symbols.
dnl Note also adjust exclude_expsyms for C++ above.
extract_expsyms_cmds=
# Just being paranoid about ensuring that cc_basename is set.
_LT_CC_BASENAME([$compiler])
case $host_os in
cygwin* | mingw* | pw32*)
# FIXME: the MSVC++ port hasn't been tested in a loooong time
# When not using gcc, we currently assume that we are using
# Microsoft Visual C++.
if test "$GCC" != yes; then
  with_gnu_ld=no
fi
;;
interix*)
# we just hope/assume this is gcc and not c89 (= MSVC++)
with_gnu_ld=yes
;;
openbsd*)
with_gnu_ld=no
;;
esac

_LT_AC_TAGVAR(ld_shlibs, $1)=yes
if test "$with_gnu_ld" = yes; then
# If archive_cmds runs LD, not CC, wlarc should be empty
wlarc='${wl}'

# Set some defaults for GNU ld with shared library support. These
# are reset later if shared libraries are not supported. Putting them

```



```

# here allows them to be overridden if necessary.
runpath_var=LD_RUN_PATH
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}--rpath ${wl}$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}--export-dynamic'
# ancient GNU ld didn't support --whole-archive et. al.
if $LD --help 2>&1 | grep 'no-whole-archive' > /dev/null; then
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="$wlarc"--whole-archive$convenience "$wlarc"--no-whole-
archive'
else
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
fi
supports_anon_versioning=no
case '$LD -v 2>/dev/null' in
*\ [[01]].* | *\ 2. [[0-9]].* | *\ 2.10.* ) ;; # catch versions < 2.11
*\ 2.11.93.0.2\ *) supports_anon_versioning=yes ;; # RH7.3 ...
*\ 2.11.92.0.12\ *) supports_anon_versioning=yes ;; # Mandrake 8.2 ...
*\ 2.11.* ) ;; # other 2.11 versions
*) supports_anon_versioning=yes ;;
esac

# See if GNU ld supports shared libraries.
case $host_os in
aix[[3-9]]*)
# On AIX/PPC, the GNU linker is very broken
if test "$host_cpu" != ia64; then
_LT_AC_TAGVAR(ld_shlibs, $1)=no
cat <<EOF 1>&2

*** Warning: the GNU linker, at least up to release 2.9.1, is reported
*** to be unable to reliably create shared libraries on AIX.
*** Therefore, libtool is disabling shared libraries support. If you
*** really care for shared libraries, you may want to modify your PATH
*** so that a non-GNU linker is found, and then restart.

EOF
fi
;;

amigaos*)
_LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo
"#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>
$output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir &&
a2ixlibrary -32)'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes

# Samuel A. Falvo II <kc5tja@dolphin.openprojects.net> reports

```

```

# that the semantics of dynamic libraries on AmigaOS, at least up
# to version 4, is to share data among multiple programs linked
# with the same dynamic library. Since this doesn't match the
# behavior of shared libraries on other platforms, we can't use
# them.
_LT_AC_TAGVAR(ld_shlibs, $1)=no
;;

beos*)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    # Joseph Beckenbach <jrb3@best.com> says some releases of gcc
    # support --undefined. This deserves some investigation.  FIXME
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -nostart $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
;;

cygwin* | mingw* | pw32*)
  # _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1) is actually meaningless,
  # as there is no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  _LT_AC_TAGVAR(always_export_symbols, $1)=no
  _LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
  _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM $libobjs $convenience | $global_symbol_pipe | $SED -e
\'/^\[[BCDGRS]\][ ]*/s/.*[[ ]](\[[^ ]*\])\^1 DATA/\' -e \'/^\[[AITW]\][ ]*/s/.*[[ ]]/\' | sort | uniq > $export_symbols'

  if $LD --help 2>&1 | grep 'auto-import' > /dev/null; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags -o
$output_objdir/$soname ${wl}--enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
    # If the export-symbols file already is a .def file (1st line
    # is EXPORTS), use it as is; otherwise, prepend...
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)="if test \"x$SED 1q $export_symbols\" = xEXPORTS; then
cp $export_symbols $output_objdir/$soname.def;
else
echo EXPORTS > $output_objdir/$soname.def;
cat $export_symbols >> $output_objdir/$soname.def;
fi~
$CC -shared $output_objdir/$soname.def $libobjs $deplibs $compiler_flags -o $output_objdir/$soname ${wl}--
enable-auto-image-base -Xlinker --out-implib -Xlinker $lib'
  else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
  fi
;;

```

```

interix[[3-9]]*)
  _LT_AC_TAGVAR(hardcode_direct, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
  # Hack: On Interix 3.x, we cannot compile PIC because of a broken gcc.
  # Instead, shared libraries are loaded at an image base (0x10000000 by
  # default) and relocated if they conflict, which is a slow very memory
  # consuming and fragmenting process. To avoid this, we pick a random,
  # 256 KiB-aligned image base between 0x50000000 and 0x6FFC0000 at link
  # time. Moving up from 0x10000000 also allows more sbrk(2) space.
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-
h,$soname ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2 \* 262144 + 1342177280' -o $lib'
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)='sed "s,^,_" $export_symbols
>$output_objdir/$soname.expsym~$CC -shared $pic_flag $libobjs $deplibs $compiler_flags ${wl}-h,$soname
${wl}--retain-symbols-file,$output_objdir/$soname.expsym ${wl}--image-base,'expr ${RANDOM-$$} % 4096 / 2
\* 262144 + 1342177280' -o $lib'
  ;;

gnu* | linux* | k*bsd*-gnu)
  if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
tmp_addflag=
case $cc_basename,$host_cpu in
pgcc*) # Portland Group C compiler
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience\"; do test -
n \"$conv\" && new_convenience=\"$new_convenience,$conv\"; done; $echo \"$new_convenience\" \"${wl}--no-
whole-archive'
  tmp_addflag=' $pic_flag'
  ;;
pgf77* | pgf90* | pgf95*) # Portland Group f77 and f90 compilers
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'for conv in $convenience\"; do test -
n \"$conv\" && new_convenience=\"$new_convenience,$conv\"; done; $echo \"$new_convenience\" \"${wl}--no-
whole-archive'
  tmp_addflag=' $pic_flag -Mnomain' ;;
ecc*,ia64* | icc*,ia64*) # Intel C compiler on ia64
  tmp_addflag=' -i_dynamic' ;;
efc*,ia64* | ifort*,ia64*) # Intel Fortran compiler on ia64
  tmp_addflag=' -i_dynamic -nofor_main' ;;
ifc* | ifort*) # Intel Fortran compiler
  tmp_addflag=' -nofor_main' ;;
esac
case '$CC -V 2>&1 | sed 5q' in
*Sun\ C*) # Sun C 5.9
  _LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}--whole-archive'new_convenience=; for conv in
$convenience\"; do test -z \"$conv\" || new_convenience=\"$new_convenience,$conv\"; done; $echo
\"$new_convenience\" \"${wl}--no-whole-archive'
  tmp_sharedflag='-G' ;;
*Sun\ F*) # Sun Fortran 8.3

```

```

    tmp_sharedflag='-G' ;;
*)
    tmp_sharedflag='-shared' ;;
esac
_LT_AC_TAGVAR(archive_cmds, $1)='$CC "'$tmp_sharedflag"'$tmp_addflag"' $libobjs $deplibs
$compiler_flags ${wl}-soname $wl$soname -o $lib'

if test $supports_anon_versioning = yes; then
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $output_objdir/$libname.ver~
cat $export_symbols | sed -e "s/^(.*)/1;" >> $output_objdir/$libname.ver~
$echo "local: *; };" >> $output_objdir/$libname.ver~
$CC "'$tmp_sharedflag"'$tmp_addflag"' $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname ${wl}-
version-script ${wl}$output_objdir/$libname.ver -o $lib'
fi
else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
fi
;;

netbsd*)
    if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable $libobjs $deplibs $linker_flags -o $lib'
    wlarc=
    else
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
    fi
    ;;

solaris*)
    if $LD -v 2>&1 | grep 'BFD 2\8' >/dev/null; then
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
        cat <<EOF 1>&2

*** Warning: The releases 2.8.* of the GNU linker cannot reliably
*** create shared libraries on Solaris systems.  Therefore, libtool
*** is disabling shared libraries support.  We urge you to upgrade GNU
*** binutils to release 2.9.1 or newer.  Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

EOF
    elif $LD --help 2>&1 | grep ': supported targets:.* elf' >/dev/null; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
$wl$soname -o $lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname

```

```

$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;

sysv5* | sco3.2v5* | sco5v6* | unixware* | OpenUNIX*)
    case '$LD -v 2>&1' in
        *\ [[01]].* | *\ 2.[][0-9].* | *\ 2.1[][0-5].*)
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    cat <<_LT_EOF 1>&2

*** Warning: Releases of the GNU linker prior to 2.16.91.0.3 can not
*** reliably create shared libraries on SCO systems.  Therefore, libtool
*** is disabling shared libraries support.  We urge you to upgrade GNU
*** binutils to release 2.16.91.0.3 or newer.  Another option is to modify
*** your PATH or compiler configuration so that the native linker is
*** used, and then restart.

_LT_EOF
;;
*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-rpath,$libdir"
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname,\${SCOABSPATH:+${install_libdir}/}$soname,-retain-symbols-file,$export_symbols -o $lib'
    else
        _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;
esac
;;

sunos4*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bshareable -o $lib $libobjs $deplibs $linker_flags'
    wlarc=
    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
    ;;

*)
    if $LD --help 2>&1 | grep ': supported targets:.* elf' > /dev/null; then
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname $wl$soname -o $lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname

```

```

$wl$soname ${wl}-retain-symbols-file $wl$export_symbols -o $lib'
    else
    _LT_AC_TAGVAR(ld_shlibs, $1)=no
    fi
    ;;
esac

if test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no; then
    runpath_var=
    _LT_AC_TAGVAR(hardcode_libdir_spec, $1)=
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=
    _LT_AC_TAGVAR(whole_archive_flag_spec, $1)=
    fi
else
    # PORTME fill in a description of your system's linker (not GNU ld)
    case $host_os in
    aix3*)
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
        _LT_AC_TAGVAR(always_export_symbols, $1)=yes
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$LD -o $output_objdir/$soname $libobjs $deplibs
$linker_flags -bE:$export_symbols -T512 -H512 -bM:SRE~$AR $AR_FLAGS $lib $output_objdir/$soname'
        # Note: this linker hardcodes the directories in LIBPATH if there
        # are no directories specified by -L.
        _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
        if test "$GCC" = yes && test -z "$lt_prog_compiler_static"; then
            # Neither direct hardcoding nor static linking is supported with a
            # broken collect2.
            _LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
        fi
        ;;

    aix[[4-9]]*)
        if test "$host_cpu" = ia64; then
            # On IA64, the linker does run time linking by default, so we don't
            # have to do anything special.
            aix_use_runtimelinking=no
            exp_sym_flag='-Bexport'
            no_entry_flag=""
        else
            # If we're using GNU nm, then we don't want the "-C" option.
            # -C means demangle to AIX nm, but means don't demangle with GNU nm
            if $NM -V 2>&1 | grep 'GNU' > /dev/null; then
                _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -Bpg $libobjs $convenience | awk \'{ if ((([$]2 == "T") ||
([\]2 == "D") || ([\]2 == "B")) && ([substr](\]3,1,1) != ".")) { print \]3 } }\'| sort -u > $export_symbols'
            else
                _LT_AC_TAGVAR(export_symbols_cmds, $1)='$NM -BCpg $libobjs $convenience | awk \'{ if ((([$]2 == "T")
|| ([\]2 == "D") || ([\]2 == "B")) && ([substr](\]3,1,1) != ".")) { print \]3 } }\'| sort -u > $export_symbols'
            fi
        fi
    ;;

```

```
aix_use_runtimelinking=no
```

```
# Test if we are trying to use run time linking or normal
# AIX style linking. If -brtl is somewhere in LDFLAGS, we
# need to do runtime linking.
case $host_os in aix4.[[23]]|aix4.[[23]].*|aix[[5-9]]*)
  for ld_flag in $LDFLAGS; do
    if (test $ld_flag = "-brtl" || test $ld_flag = "-Wl,-brtl"); then
      aix_use_runtimelinking=yes
      break
    fi
  done
;;
esac
```

```
exp_sym_flag='-bexport'
no_entry_flag='-bnoentry'
fi
```

```
# When large executables or shared objects are built, AIX ld can
# have problems creating the table of contents. If linking a library
# or program results in "error TOC overflow" add -mminimal-toc to
# CXXFLAGS/CFLAGS for g++/gcc. In the cases where that is not
# enough to fix the problem, add -Wl,-bbigtoc to LDFLAGS.
```

```
_LT_AC_TAGVAR(archive_cmds, $1)="
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
```

```
if test "$GCC" = yes; then
case $host_os in aix4.[[012]]|aix4.[[012]].*)
# We only want to do this on AIX 4.2 and lower, the check
# below for broken collect2 doesn't work under 4.3+
collect2name='${CC} -print-prog-name=collect2'
if test -f "$collect2name" && \
  strings "$collect2name" | grep resolve_lib_name >/dev/null
then
# We have reworked collect2
:
else
# We have old collect2
_LT_AC_TAGVAR(hardcode_direct, $1)=unsupported
# It fails to find uninstalled libraries when the uninstalled
# path is not listed in the libpath. Setting hardcode_minus_L
# to unsupported forces relinking
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
```

```

_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=
fi
;;
esac
shared_flag='-shared'
if test "$aix_use_runtimelinking" = yes; then
  shared_flag="$shared_flag ""${wl}-G'
fi
  else
# not using gcc
if test "$host_cpu" = ia64; then
# VisualAge C++, Version 5.5 for AIX 5L for IA-64, Beta 3 Release
# chokes on -Wl,-G. The following line is correct:
  shared_flag='-G'
else
if test "$aix_use_runtimelinking" = yes; then
  shared_flag='${wl}-G'
else
  shared_flag='${wl}-bM:SRE'
fi
fi
fi

# It seems that -bexpall does not export symbols beginning with
# underscore (_), so it is better to generate a list of symbols to export.
_LT_AC_TAGVAR(always_export_symbols, $1)=yes
if test "$aix_use_runtimelinking" = yes; then
# Warning - without using the other runtime loading flags (-brtl),
# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(allow_undefined_flag, $1)='-berok'
  # Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC" -o $output_objdir/$soname $libobjs $deplibs
""${wl}$no_entry_flag" $compiler_flags 'if test "x${allow_undefined_flag}" != "x"; then echo
"${wl}${allow_undefined_flag}"; else ;; fi' ""${wl}$exp_sym_flag:\$export_symbols $shared_flag"
  else
if test "$host_cpu" = ia64; then
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-R $libdir:/usr/lib:/lib'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)="-z nodefs"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="\$CC $shared_flag" -o $output_objdir/$soname $libobjs
$deplibs ""${wl}$no_entry_flag" $compiler_flags ${wl}${allow_undefined_flag}
""${wl}$exp_sym_flag:\$export_symbols"
else
# Determine the default libpath from the value encoded in an empty executable.
  _LT_AC_SYS_LIBPATH_AIX
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-blibpath:$libdir:"$aix_libpath"
  # Warning - without using the other run time loading flags,

```



```

# -berok will link without error, but may produce a broken library.
_LT_AC_TAGVAR(no_undefined_flag, $1)=' ${wl}-bernotok'
_LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-berok'
# Exported symbols can be pulled into shared objects from archives
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='$convenience'
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
# This is similar to how AIX traditionally builds its shared libraries.
_LT_AC_TAGVAR(archive_expsym_cmds, $1)="$CC $shared_flag" -o $output_objdir/$soname $libobjs
$deplibs ${wl}-bnoentry $compiler_flags ${wl}-bE:$export_symbols${allow_undefined_flag}~$AR $AR_FLAGS
$output_objdir/$libname$release.a $output_objdir/$soname'
fi
fi
;;

amigaos*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/a2ixlibrary.data~$echo "#define NAME $libname"
> $output_objdir/a2ixlibrary.data~$echo "#define LIBRARY_ID 1" >> $output_objdir/a2ixlibrary.data~$echo
"#define VERSION $major" >> $output_objdir/a2ixlibrary.data~$echo "#define REVISION $revision" >>
$output_objdir/a2ixlibrary.data~$AR $AR_FLAGS $lib $libobjs~$RANLIB $lib~(cd $output_objdir &&
a2ixlibrary -32)'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  # see comment about different semantics on the GNU ld section
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

bsdi[[45]]*)
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)=-rdynamic
  ;;

cygwin* | mingw* | pw32*)
  # When not using gcc, we currently assume that we are using
  # Microsoft Visual C++.
  # hardcode_libdir_flag_spec is actually meaningless, as there is
  # no search path for DLLs.
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=' '
  _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
  # Tell ltmain to make .lib files, not .a files.
  libext=lib
  # Tell ltmain to make .dll files, not .so files.
  shrext_cmds=".dll"
  # FIXME: Setting linknames here is a bad hack.
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -o $lib $libobjs $compiler_flags 'echo "$deplibs" | $SED -e '\$/ -
lc$/\' -link -dll~linknames='
  # The linker will automatically build a .lib file if we build a DLL.
  _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='true'
  # FIXME: Should let the user specify the lib program.
  _LT_AC_TAGVAR(old_archive_cmds, $1)='lib -OUT:$oldlib$oldobjs$old_deplibs'

```

```

_LT_AC_TAGVAR(fix_srcfile_path, $1)="cygpath -w "$srcfile""
_LT_AC_TAGVAR(enable_shared_with_static_runtimes, $1)=yes
;;

darwin* | rhapsody*)
_LT_AC_TAGVAR(allow_undefined_flag, $1)="$_lt_dar_allow_undefined"
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_automatic, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=unsupported
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)="
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
if test "$GCC" = yes ; then
  output_verbose_link_cmd='echo'
  _LT_AC_TAGVAR(archive_cmds, $1)="\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs \$deplibs
\$compiler_flags -install_name \$rpath/\$soname \$verstring $_lt_dar_single_mod$_lt_dsymutil}"
  _LT_AC_TAGVAR(module_cmds, $1)="\$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs
\$compiler_flags$_lt_dsymutil}"
  _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed 's,^,_' < \$export_symbols >
\$output_objdir/\${libname}-symbols.expsym~\$CC -dynamiclib \$allow_undefined_flag -o \$lib \$libobjs
\$deplibs \$compiler_flags -install_name \$rpath/\$soname \$verstring
\$_lt_dar_single_mod\$_lt_dar_export_syms\$_lt_dsymutil}"
  _LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,^,_' < \$export_symbols >
\$output_objdir/\${libname}-symbols.expsym~\$CC \$allow_undefined_flag -o \$lib -bundle \$libobjs \$deplibs
\$compiler_flags\$_lt_dar_export_syms\$_lt_dsymutil}"
else
  case $cc_basename in
    xlc*)
      output_verbose_link_cmd='echo'
      _LT_AC_TAGVAR(archive_cmds, $1)='$CC -qmkshrobj $allow_undefined_flag -o $lib $libobjs $deplibs
$compiler_flags ${wl}-install_name ${wl}'echo $rpath/$soname' $xlcverstring'
      _LT_AC_TAGVAR(module_cmds, $1)='$CC $allow_undefined_flag -o $lib -bundle $libobjs
$deplibs$compiler_flags'
      # Don't fix this by using the ld -exported_symbols_list flag, it doesn't exist in older darwin lds
      _LT_AC_TAGVAR(archive_expsym_cmds, $1)="sed -e 's,#.*, ' -e 's,^[ ]*, ' -e 's,^(.*)_,&,' <
$export_symbols > $output_objdir/\${libname}-symbols.expsym~$CC -qmkshrobj $allow_undefined_flag -o $lib
$libobjs $deplibs $compiler_flags ${wl}-install_name ${wl}$rpath/$soname $xlcverstring~nmedit -s
$output_objdir/\${libname}-symbols.expsym ${lib}'
      _LT_AC_TAGVAR(module_expsym_cmds, $1)="sed -e 's,#.*, ' -e 's,^[ ]*, ' -e 's,^(.*)_,&,' <
$export_symbols > $output_objdir/\${libname}-symbols.expsym~$CC $allow_undefined_flag -o $lib -bundle
$libobjs $deplibs$compiler_flags~nmedit -s $output_objdir/\${libname}-symbols.expsym ${lib}'
      ;;
    *)
      _LT_AC_TAGVAR(ld_shlibs, $1)=no
      ;;
  esac
fi
;;

```

```

dgux*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

freebsd1*)
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;

# FreeBSD 2.2.[012] allows us to include c++rt0.o to get C++ constructor
# support. Future versions do this automatically, but an explicit c++rt0.o
# does not break anything, and helps significantly (at the cost of a little
# extra space).
freebsd2.2*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags
/usr/lib/c++rt0.o'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

# Unfortunately, older versions of FreeBSD 2 do not have this feature.
freebsd2*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

# FreeBSD 3 and greater uses gcc -shared to do shared libraries.
freebsd* | dragonfly*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -o $lib $libobjs $deplibs $compiler_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
  _LT_AC_TAGVAR(hardcode_direct, $1)=yes
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

hpux9*)
  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$CC -shared -fPIC ${wl}+b
${wl}$install_libdir -o $output_objdir/$soname $libobjs $deplibs $compiler_flags~test $output_objdir/$soname =
$lib || mv $output_objdir/$soname $lib'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$rm $output_objdir/$soname~$LD -b +b $install_libdir -o
$output_objdir/$soname $libobjs $deplibs $linker_flags~test $output_objdir/$soname = $lib || mv
$output_objdir/$soname $lib'
  fi

```

```

fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(hardcode_direct, $1)=yes

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
;;

hpux10*)
  if test "$GCC" = yes -a "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir
-o $lib $libobjs $deplibs $compiler_flags'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$LD -b +h $soname +b $install_libdir -o $lib $libobjs $deplibs
$linker_flags'
  fi
  if test "$with_gnu_ld" = no; then
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

    _LT_AC_TAGVAR(hardcode_direct, $1)=yes
    _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
  fi
  ;;

hpux11*)
  if test "$GCC" = yes -a "$with_gnu_ld" = no; then
  case $host_cpu in
  hppa*64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}+h ${wl}$soname -o $lib $libobjs $deplibs
$compiler_flags'
    ;;
  ia64*)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib
$libobjs $deplibs $compiler_flags'
    ;;
  *)
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared -fPIC ${wl}+h ${wl}$soname ${wl}+b
${wl}$install_libdir -o $lib $libobjs $deplibs $compiler_flags'
    ;;
  esac
  fi
  ;;
esac

```

```

else
case $host_cpu in
hppa*64*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname -o $lib $libobjs $deplibs
$compiler_flags'
;;
ia64*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+nodefaultpath -o $lib $libobjs
$deplibs $compiler_flags'
;;
*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -b ${wl}+h ${wl}$soname ${wl}+b ${wl}$install_libdir -o $lib
$libobjs $deplibs $compiler_flags'
;;
esac
fi
if test "$with_gnu_ld" = no; then
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}+b ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:

case $host_cpu in
hppa*64*|ia64*)
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='+b $libdir'
_LT_AC_TAGVAR(hardcode_direct, $1)=no
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;
*)
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'

# hardcode_minus_L: Not really in the search PATH,
# but as the default location of the library.
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
;;
esac
fi
;;

irix5* | irix6* | nonstopux*)
if test "$GCC" = yes; then
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $libobjs $deplibs $compiler_flags ${wl}-soname
${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-update_registry
${wl}${output_objdir}/so_locations -o $lib'
else
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared $libobjs $deplibs $linker_flags -soname $soname 'test -n
"$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec_ld, $1)='-rpath $libdir'
fi

```

```

_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;

netbsd*)
if echo __ELF__ | $CC -E - | grep __ELF__ >/dev/null; then
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags' # a.out
else
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared -o $lib $libobjs $deplibs $linker_flags' # ELF
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

newsos6)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

openbsd*)
if test -f /usr/libexec/ld.so; then
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
if test -z "echo __ELF__ | $CC -E - | grep __ELF__" || test "$host_os-$host_cpu" = "openbsd2.8-powerpc"; then
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags
${wl}-retain-symbols-file,$export_symbols'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-E'
else
case $host_os in
openbsd[[01]].* | openbsd2.[][0-7] | openbsd2.[][0-7].*)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -Bshareable -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
;;
*)
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared $pic_flag -o $lib $libobjs $deplibs $compiler_flags'
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath,$libdir'
;;
esac
fi
else
_LT_AC_TAGVAR(ld_shlibs, $1)=no

```

```

fi
;;

os2*)
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)=-L$libdir
    _LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
    _LT_AC_TAGVAR(allow_undefined_flag, $1)=unsupported
    _LT_AC_TAGVAR(archive_cmds, $1)='$echo "LIBRARY $libname INITINSTANCE" >
$output_objdir/$libname.def~$echo "DESCRIPTION \"$libname\" " >> $output_objdir/$libname.def~$echo DATA
>> $output_objdir/$libname.def~$echo " SINGLE NONSHARED" >> $output_objdir/$libname.def~$echo
EXPORTS >> $output_objdir/$libname.def~emxexp $libobjs >> $output_objdir/$libname.def~$CC -Zdll -Zcrtdll -
o $lib $libobjs $deplibs $compiler_flags $output_objdir/$libname.def
    _LT_AC_TAGVAR(old_archive_From_new_cmds, $1)='emximp -o $output_objdir/$libname.a
$output_objdir/$libname.def'
    ;;

osf3*)
    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}\*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $libobjs $deplibs $compiler_flags
${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring' ${wl}-
update_registry ${wl}${output_objdir}/so_locations -o $lib'
    else
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' -expect_unresolved \*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag} $libobjs $deplibs $linker_flags -
soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry
${output_objdir}/so_locations -o $lib'
    fi
    _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
    _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
    ;;

osf4* | osf5*) # as osf3* with the addition of -msym flag
    if test "$GCC" = yes; then
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' ${wl}-expect_unresolved ${wl}\*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared${allow_undefined_flag} $libobjs $deplibs $compiler_flags
${wl}-msym ${wl}-soname ${wl}$soname 'test -n "$verstring" && echo ${wl}-set_version ${wl}$verstring'
${wl}-update_registry ${wl}${output_objdir}/so_locations -o $lib'
        _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='${wl}-rpath ${wl}$libdir'
    else
        _LT_AC_TAGVAR(allow_undefined_flag, $1)=' -expect_unresolved \*'
        _LT_AC_TAGVAR(archive_cmds, $1)='$LD -shared${allow_undefined_flag} $libobjs $deplibs $linker_flags -
msym -soname $soname 'test -n "$verstring" && echo -set_version $verstring' -update_registry
${output_objdir}/so_locations -o $lib'
        _LT_AC_TAGVAR(archive_expsym_cmds, $1)='for i in `cat $export_symbols`; do printf "%s %s\n" -
exported_symbol "$i" >> $lib.exp; done; echo "-hidden">> $lib.exp~
$LD -shared${allow_undefined_flag} -input $lib.exp $linker_flags $libobjs $deplibs -soname $soname 'test -n
"$verstring" && echo -set_version $verstring' -update_registry ${output_objdir}/so_locations -o $lib~$rm $lib.exp'

```

```

# Both c and cxx compiler support -rpath directly
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-rpath $libdir'
fi
_LT_AC_TAGVAR(hardcode_libdir_separator, $1)=:
;;

solaris*)
_LT_AC_TAGVAR(no_undefined_flag, $1)='-z text'
if test "$GCC" = yes; then
wlarc='${wl}'
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h ${wl}$soname -o $lib $libobjs $deplibs
$compiler_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$CC -shared ${wl}-M ${wl}$lib.exp ${wl}-h ${wl}$soname -o $lib $libobjs $deplibs $compiler_flags~$rm
$lib.exp'
else
wlarc=""
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G${allow_undefined_flag} -h $soname -o $lib $libobjs $deplibs
$linker_flags'
_LT_AC_TAGVAR(archive_expsym_cmds, $1)='$echo "{ global:" > $lib.exp~cat $export_symbols | $SED -e
"s/^(.*)/1;/" >> $lib.exp~$echo "local: *; };" >> $lib.exp~
$LD -G${allow_undefined_flag} -M $lib.exp -h $soname -o $lib $libobjs $deplibs $linker_flags~$rm $lib.exp'
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-R$libdir'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
case $host_os in
solaris2.[0-5] | solaris2.[0-5].*) ;;
*)
# The compiler driver will combine and reorder linker options,
# but understands '-z linker_flag'. GCC discards it without '$wl',
# but is careful enough not to reorder.
# Supported since Solaris 2.6 (maybe 2.5.1?)
if test "$GCC" = yes; then
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='${wl}-z ${wl}allextract$convenience ${wl}-z
${wl}defaultextract'
else
_LT_AC_TAGVAR(whole_archive_flag_spec, $1)='-z allextract$convenience -z defaultextract'
fi
;;
esac
_LT_AC_TAGVAR(link_all_deplibs, $1)=yes
;;

sunos4*)
if test "x$host_vendor" = xsequent; then
# Use $CC to link under sequent, because it throws in some extra .o

```



```

# files that make .init and .fini sections work.
_LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h $soname -o $lib $libobjs $deplibs $compiler_flags'
else
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -assert pure-text -Bstatic -o $lib $libobjs $deplibs $linker_flags'
fi
_LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes
_LT_AC_TAGVAR(hardcode_minus_L, $1)=yes
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

sysv4)
case $host_vendor in
sni)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_direct, $1)=yes # is this really true???
;;
siemens)
## LD is ld it makes a PLAMLIB
## CC just makes a GrossModule.
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(reload_cmds, $1)='$CC -r -o $output$reload_objs'
_LT_AC_TAGVAR(hardcode_direct, $1)=no
;;
motorola)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_direct, $1)=no #Motorola manual says yes, but my tests say they lie
;;
esac
runpath_var='LD_RUN_PATH'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
;;

sysv4.3*)
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
_LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='-Bexport'
;;

sysv4*MP*)
if test -d /usr/nec; then
_LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
_LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
runpath_var=LD_RUN_PATH
hardcode_runpath_var=yes
_LT_AC_TAGVAR(ld_shlibs, $1)=yes
fi
;;

```

```

sysv4*uw2* | sysv5OpenUNIX* | sysv5UnixWare7.[[01]].[[10]]* | unixware7* | sco3.2v5.0.[[024]]*)
  _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  runpath_var='LD_RUN_PATH'

  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-h,$soname -
o $lib $libobjs $deplibs $compiler_flags'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,$soname -o $lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-h,$soname -o
$lib $libobjs $deplibs $compiler_flags'
  fi
  ;;

sysv5* | sco3.2v5* | sco5v6*)
  # Note: We can NOT use -z defs as we might desire, because we do not
  # link with -lc, and that would cause any symbols used from libc to
  # always be unresolved, which means just about no library would
  # ever link correctly.  If we're not using GNU ld we use -z text
  # though, which does catch some bad symbols but isn't as heavy-handed
  # as -z defs.
  _LT_AC_TAGVAR(no_undefined_flag, $1)='${wl}-z,text'
  _LT_AC_TAGVAR(allow_undefined_flag, $1)='${wl}-z,nodefs'
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)="test -z "$SCOABSPATH" && echo ${wl}-R,$libdir"
  _LT_AC_TAGVAR(hardcode_libdir_separator, $1)=':'
  _LT_AC_TAGVAR(link_all_deplibs, $1)=yes
  _LT_AC_TAGVAR(export_dynamic_flag_spec, $1)='${wl}-Bexport'
  runpath_var='LD_RUN_PATH'

  if test "$GCC" = yes; then
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -shared ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o
$lib $libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -shared ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
  else
    _LT_AC_TAGVAR(archive_cmds, $1)='$CC -G ${wl}-h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib
$libobjs $deplibs $compiler_flags'
    _LT_AC_TAGVAR(archive_expsym_cmds, $1)='$CC -G ${wl}-Bexport:$export_symbols ${wl}-
h,\${SCOABSPATH:+${install_libdir}/}$soname -o $lib $libobjs $deplibs $compiler_flags'
  fi
  ;;

```

```

uts4*)
  _LT_AC_TAGVAR(archive_cmds, $1)='$LD -G -h $soname -o $lib $libobjs $deplibs $linker_flags'
  _LT_AC_TAGVAR(hardcode_libdir_flag_spec, $1)='-L$libdir'
  _LT_AC_TAGVAR(hardcode_shlibpath_var, $1)=no
  ;;

*)
  _LT_AC_TAGVAR(ld_shlibs, $1)=no
  ;;
esac
fi
)
AC_MSG_RESULT([$_LT_AC_TAGVAR(ld_shlibs, $1)])
test "$_LT_AC_TAGVAR(ld_shlibs, $1)" = no && can_build_shared=no

#
# Do we need to explicitly link libc?
#
case "x$_LT_AC_TAGVAR(archive_cmds_need_lc, $1)" in
x|xyes)
  # Assume -lc should be added
  _LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes

  if test "$enable_shared" = yes && test "$GCC" = yes; then
    case $_LT_AC_TAGVAR(archive_cmds, $1) in
    *'~'*)
      # FIXME: we may have to deal with multi-command sequences.
      ;;
    '$CC '*)
      # Test whether the compiler implicitly links with -lc since on some
      # systems, -lgcc has to come before -lc. If gcc already passes -lc
      # to ld, don't add -lc before -lgcc.
      AC_MSG_CHECKING([whether -lc should be explicitly linked in])
      $rm conftest*
      echo "$lt_simple_compile_test_code" > conftest.$ac_ext

      if AC_TRY_EVAL(ac_compile) 2>conftest.err; then
        soname=conftest
        lib=conftest
        libobjs=conftest.$ac_objext
        deplibs=
        wl=$_LT_AC_TAGVAR(lt_prog_compiler_wl, $1)
        pic_flag=$_LT_AC_TAGVAR(lt_prog_compiler_pic, $1)
        compiler_flags=-v
        linker_flags=-v
        verstring=
        output_objdir=.
        libname=conftest

```

```

lt_save_allow_undefined_flag=$_LT_AC_TAGVAR(allow_undefined_flag, $1)
_LT_AC_TAGVAR(allow_undefined_flag, $1)=
if AC_TRY_EVAL(_LT_AC_TAGVAR(archive_cmds, $1) 2\>|&1 \| grep \-lc \| \>/dev/null 2\>|&1)
then
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=no
else
_LT_AC_TAGVAR(archive_cmds_need_lc, $1)=yes
fi
_LT_AC_TAGVAR(allow_undefined_flag, $1)=$lt_save_allow_undefined_flag
else
cat conftest.err 1>&5
fi
$rm conftest*
AC_MSG_RESULT([$LT_AC_TAGVAR(archive_cmds_need_lc, $1)])
;;
esac
fi
;;
esac
])# AC_LIBTOOL_PROG_LD_SHLIBS

```

```

# _LT_AC_FILE_LTDLL_C
# -----
# Be careful that the start marker always follows a newline.
AC_DEFUN([_LT_AC_FILE_LTDLL_C], [
/* ltdll.c starts here */
#define WIN32_LEAN_AND_MEAN
#include <windows.h>
#undef WIN32_LEAN_AND_MEAN
#include <stdio.h>
#
# #ifndef __CYGWIN__
# # ifdef __CYGWIN32__
# #  define __CYGWIN__ __CYGWIN32__
# # endif
# #endif
#
# #ifdef __cplusplus
# extern "C" {
# #endif
# BOOL WINAPI DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved);
# #ifdef __cplusplus
# }
# #endif
#
# #ifdef __CYGWIN__
# #include <cygwin/cygwin_dll.h>

```

```

# DECLARE_CYGWIN_DLL( DllMain );
# #endif
# HINSTANCE __hDllInstance_base;
#
# BOOL APIENTRY
# DllMain (HINSTANCE hInst, DWORD reason, LPVOID reserved)
# {
#   __hDllInstance_base = hInst;
#   return TRUE;
# }
# /* ltdll.c ends here */
)# _LT_AC_FILE_LTDLL_C

# _LT_AC_TAGVAR(VARNAME, [TAGNAME])
# -----
AC_DEFUN([_LT_AC_TAGVAR], [ifelse([$2], [], [$1], [$1_$2])])

# old names
AC_DEFUN([AM_PROG_LIBTOOL], [AC_PROG_LIBTOOL])
AC_DEFUN([AM_ENABLE_SHARED], [AC_ENABLE_SHARED($@)])
AC_DEFUN([AM_ENABLE_STATIC], [AC_ENABLE_STATIC($@)])
AC_DEFUN([AM_DISABLE_SHARED], [AC_DISABLE_SHARED($@)])
AC_DEFUN([AM_DISABLE_STATIC], [AC_DISABLE_STATIC($@)])
AC_DEFUN([AM_PROG_LD], [AC_PROG_LD])
AC_DEFUN([AM_PROG_NM], [AC_PROG_NM])

# This is just to silence aclocal about the macro not being used
ifelse([AC_DISABLE_FAST_INSTALL])

AC_DEFUN([LT_AC_PROG_GCJ],
[AC_CHECK_TOOL(GCJ, gcj, no)
test "x${GCJFLAGS+set}" = xset || GCJFLAGS="-g -O2"
AC_SUBST(GCJFLAGS)
])

AC_DEFUN([LT_AC_PROG_RC],
[AC_CHECK_TOOL(RC, windres, no)
])

# Cheap backport of AS_EXECUTABLE_P and required macros
# from Autoconf 2.59; we should not use $as_executable_p directly.

# _AS_TEST_PREPARE
# -----
m4_ifndef([_AS_TEST_PREPARE],

```

```

[m4_defun([_AS_TEST_PREPARE],
[if test -x / >/dev/null 2>&1; then
  as_executable_p='test -x'
else
  as_executable_p='test -f'
fi
]))# _AS_TEST_PREPARE

# AS_EXECUTABLE_P
# -----
# Check whether a file is executable.
m4_ifndef([AS_EXECUTABLE_P],
[m4_defun([AS_EXECUTABLE_P],
[AS_REQUIRE([_AS_TEST_PREPARE])dnl
$as_executable_p $1[]dnl
]))# AS_EXECUTABLE_P

# NOTE: This macro has been submitted for inclusion into #
# GNU Autoconf as AC_PROG_SED. When it is available in #
# a released version of Autoconf we should remove this #
# macro and use it instead. #
# LT_AC_PROG_SED
# -----
# Check for a fully-functional sed program, that truncates
# as few characters as possible. Prefer GNU sed if found.
AC_DEFUN([LT_AC_PROG_SED],
[AC_MSG_CHECKING([for a sed that does not truncate output])
AC_CACHE_VAL([lt_cv_path_SED],
[# Loop through the user's path and test for sed and gsed.
# Then use that list of sed's as ones to test for truncation.
as_save_IFS=$IFS; IFS=$PATH_SEPARATOR
for as_dir in $PATH
do
  IFS=$as_save_IFS
  test -z "$as_dir" && as_dir=.
  for lt_ac_prog in sed gsed; do
    for ac_exec_ext in " $ac_executable_extensions; do
      if AS_EXECUTABLE_P(["$as_dir/$lt_ac_prog$ac_exec_ext"]); then
        lt_ac_sed_list="$lt_ac_sed_list $as_dir/$lt_ac_prog$ac_exec_ext"
      fi
    done
  done
done
IFS=$as_save_IFS
lt_ac_max=0
lt_ac_count=0
# Add /usr/xpg4/bin/sed as it is typically found on Solaris
# along with /bin/sed that truncates output.

```

```

for lt_ac_sed in $lt_ac_sed_list /usr/xpg4/bin/sed; do
  test ! -f $lt_ac_sed && continue
  cat /dev/null > conftest.in
  lt_ac_count=0
  echo $ECHO_N "0123456789$ECHO_C" >conftest.in
  # Check for GNU sed and select it if it is found.
  if "$lt_ac_sed" --version 2>&1 < /dev/null | grep 'GNU' > /dev/null; then
    lt_cv_path_SED=$lt_ac_sed
    break
  fi
while true; do
  cat conftest.in conftest.in >conftest.tmp
  mv conftest.tmp conftest.in
  cp conftest.in conftest.nl
  echo >>conftest.nl
  $lt_ac_sed -e 's/a$/' < conftest.nl >conftest.out || break
  cmp -s conftest.out conftest.nl || break
  # 10000 chars as input seems more than enough
  test $lt_ac_count -gt 10 && break
  lt_ac_count='expr $lt_ac_count + 1'
  if test $lt_ac_count -gt $lt_ac_max; then
    lt_ac_max=$lt_ac_count
    lt_cv_path_SED=$lt_ac_sed
  fi
done
done
)
SED=$lt_cv_path_SED
AC_SUBST([SED])
AC_MSG_RESULT([$SED])
)

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# AM_AUTOMAKE_VERSION(VERSION)
# -----
# Automake X.Y traces this macro to ensure aclocal.m4 has been
# generated from the m4 files accompanying Automake X.Y.
# (This private macro should not be called outside this file.)
AC_DEFUN([AM_AUTOMAKE_VERSION],
[am__api_version='1.10'
dnl Some users find AM_AUTOMAKE_VERSION and mistake it for a way to
dnl require some minimum version. Point them to the right macro.
m4_if([$1], [1.10.1], [],

```

```

[AC_FATAL([Do not call $0, use AM_INIT_AUTOMAKE([$1].)])]dnl
)

# _AM_AUTOCONF_VERSION(VERSION)
# -----
# aclocal traces this macro to find the Autoconf version.
# This is a private macro too. Using m4_define simplifies
# the logic in aclocal, which can simply ignore this definition.
m4_define([_AM_AUTOCONF_VERSION], [])

# AM_SET_CURRENT_AUTOMAKE_VERSION
# -----
# Call AM_AUTOMAKE_VERSION and AM_INIT_AUTOMAKE so they can be traced.
# This function is AC_REQUIRED by AC_INIT_AUTOMAKE.
AC_DEFUN([AM_SET_CURRENT_AUTOMAKE_VERSION],
[AM_AUTOMAKE_VERSION([1.10.1])dnl
m4_ifndef([AC_AUTOCONF_VERSION],
[m4_copy([m4_PACKAGE_VERSION], [AC_AUTOCONF_VERSION])])dnl
_AM_AUTOCONF_VERSION(AC_AUTOCONF_VERSION)])

# AM_AUX_DIR_EXPAND           -*- Autoconf -*-

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# For projects using AC_CONFIG_AUX_DIR([foo]), Autoconf sets
# $ac_aux_dir to '$srcdir/foo'. In other projects, it is set to
# '$srcdir', '$srcdir/..', or '$srcdir/../..'.
#
# Of course, Automake must honor this variable whenever it calls a
# tool from the auxiliary directory. The problem is that $srcdir (and
# therefore $ac_aux_dir as well) can be either absolute or relative,
# depending on how configure is run. This is pretty annoying, since
# it makes $ac_aux_dir quite unusable in subdirectories: in the top
# source directory, any form will work fine, but in subdirectories a
# relative path needs to be adjusted first.
#
# $ac_aux_dir/missing
#   fails when called from a subdirectory if $ac_aux_dir is relative
# $top_srcdir/$ac_aux_dir/missing
#   fails if $ac_aux_dir is absolute,
#   fails when called from a subdirectory in a VPATH build with
#     a relative $ac_aux_dir
#
# The reason of the latter failure is that $top_srcdir and $ac_aux_dir

```



```

# are both prefixed by $srcdir. In an in-source build this is usually
# harmless because $srcdir is '.', but things will broke when you
# start a VPATH build or use an absolute $srcdir.
#
# So we could use something similar to $top_srcdir/$ac_aux_dir/missing,
# iff we strip the leading $srcdir from $ac_aux_dir. That would be:
# am_aux_dir="\$(top_srcdir)/"expr "$ac_aux_dir" : "$srcdir/*\(.*)"""
# and then we would define $MISSING as
# MISSING="\${SHELL} $am_aux_dir/missing"
# This will work as long as MISSING is not called from configure, because
# unfortunately $(top_srcdir) has no meaning in configure.
# However there are other variables, like CC, which are often used in
# configure, and could therefore not use this "fixed" $ac_aux_dir.
#
# Another solution, used here, is to always expand $ac_aux_dir to an
# absolute PATH. The drawback is that using absolute paths prevent a
# configured tree to be moved without reconfiguration.

```

```

AC_DEFUN([AM_AUX_DIR_EXPAND],
[dnl Rely on autoconf to set up CDPATH properly.
AC_PREREQ([2.50])dnl
# expand $ac_aux_dir to an absolute path
am_aux_dir='cd $ac_aux_dir && pwd'
])

```

```

# AM_CONDITIONAL -*- Autoconf -*-

```

```

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```

```

# serial 8

```

```

# AM_CONDITIONAL(NAME, SHELL-CONDITION)
# -----
# Define a conditional.
AC_DEFUN([AM_CONDITIONAL],
[AC_PREREQ(2.52)dnl
ifelse([$1], [TRUE], [AC_FATAL([$0: invalid condition: $1])],
[$1], [FALSE], [AC_FATAL([$0: invalid condition: $1])])dnl
AC_SUBST([$1_TRUE])dnl
AC_SUBST([$1_FALSE])dnl
_AM_SUBST_NOTMAKE([$1_TRUE])dnl
_AM_SUBST_NOTMAKE([$1_FALSE])dnl
if $2; then

```

```

$1_TRUE=
$1_FALSE='#'
else
$1_TRUE='#'
$1_FALSE=
fi
AC_CONFIG_COMMANDS_PRE(
[if test -z "${$1_TRUE}" && test -z "${$1_FALSE}"; then
  AC_MSG_ERROR([[conditional "$1" was never defined.
Usually this means the macro was only invoked conditionally.]]
fi)])

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# serial 9

# There are a few dirty hacks below to avoid letting 'AC_PROG_CC' be
# written in clear, in which case automake, when reading aclocal.m4,
# will think it sees a *use*, and therefore will trigger all it's
# C support machinery. Also note that it means that autoscan, seeing
# CC etc. in the Makefile, will ask for an AC_PROG_CC use...

# _AM_DEPENDENCIES(NAME)
# -----
# See how the compiler implements dependency checking.
# NAME is "CC", "CXX", "GCC", or "OBJC".
# We try a few techniques and use that to set a single cache variable.
#
# We don't AC_REQUIRE the corresponding AC_PROG_CC since the latter was
# modified to invoke _AM_DEPENDENCIES(CC); we would have a circular
# dependency, and given that the user is not expected to run this macro,
# just rely on AC_PROG_CC.
AC_DEFUN([_AM_DEPENDENCIES],
[AC_REQUIRE([AM_SET_DEPDIR])dnl
AC_REQUIRE([AM_OUTPUT_DEPENDENCY_COMMANDS])dnl
AC_REQUIRE([AM_MAKE_INCLUDE])dnl
AC_REQUIRE([AM_DEP_TRACK])dnl

ifelse([$1], CC, [depcc="$CC" am_compiler_list=],
      [$1], CXX, [depcc="$CXX" am_compiler_list=],
      [$1], OBJC, [depcc="$OBJC" am_compiler_list='gcc3 gcc'],
      [$1], UPC, [depcc="$UPC" am_compiler_list=],

```

```
[ $1 ], GCJ, [depcc="$GCJ" am_compiler_list='gcc3 gcc'],  
  [depcc="$1" am_compiler_list=])
```

```
AC_CACHE_CHECK([dependency style of $depcc],  
  [am_cv_$1_dependencies_compiler_type],  
[if test -z "$AMDEP_TRUE" && test -f "$am_depcomp"; then  
  # We make a subdir and do the tests there.  Otherwise we can end up  
  # making bogus files that we don't know about and never remove.  For  
  # instance it was reported that on HP-UX the gcc test will end up  
  # making a dummy file named 'D' -- because '-MD' means 'put the output  
  # in D'.  
  mkdir conftest.dir  
  # Copy depcomp to subdir because otherwise we won't find it if we're  
  # using a relative directory.  
  cp "$am_depcomp" conftest.dir  
  cd conftest.dir  
  # We will build objects and dependencies in a subdirectory because  
  # it helps to detect inapplicable dependency modes.  For instance  
  # both Tru64's cc and ICC support -MD to output dependencies as a  
  # side effect of compilation, but ICC will put the dependencies in  
  # the current directory while Tru64 will put them in the object  
  # directory.  
  mkdir sub  
  
  am_cv_$1_dependencies_compiler_type=none  
  if test "$am_compiler_list" = ""; then  
    am_compiler_list='sed -n [s/^#*([a-zA-Z0-9]*)$/\1/p] < ./depcomp'  
  fi  
  for depmode in $am_compiler_list; do  
    # Setup a source with many dependencies, because some compilers  
    # like to wrap large dependency lists on column 80 (with \), and  
    # we should not choose a depcomp mode which is confused by this.  
    #  
    # We need to recreate these files for each test, as the compiler may  
    # overwrite some of them when testing with obscure command lines.  
    # This happens at least with the AIX C compiler.  
    : > sub/conftest.c  
    for i in 1 2 3 4 5 6; do  
      echo '#include "confstt'$i'.h"' >> sub/conftest.c  
      # Using ': > sub/confstt$i.h' creates only sub/confstt1.h with  
      # Solaris 8's {/usr,}/bin/sh.  
      touch sub/confstt$i.h  
    done  
    echo "${am__include} ${am__quote}sub/conftest.Po${am__quote}" > confmf  
  
    case $depmode in  
    nosideeffect)  
      # after this tag, mechanisms are not by side-effect, so they'll
```

```

# only be used when explicitly requested
if test "x$enable_dependency_tracking" = xyes; then
continue
else
break
fi
;;
none) break ;;
esac
# We check with '-c' and '-o' for the sake of the "dashmstdout"
# mode. It turns out that the SunPro C++ compiler does not properly
# handle '-M -o', and we need to detect this.
if depmode=$depmode \
source=sub/conftest.c object=sub/conftest.${OBJEXT-o} \
deffile=sub/conftest.Po tmpdeffile=sub/conftest.TPo \
$SHELL ./depcomp $depcc -c -o sub/conftest.${OBJEXT-o} sub/conftest.c \
>/dev/null 2>conftest.err &&
grep sub/conftest1.h sub/conftest.Po >/dev/null 2>&1 &&
grep sub/conftest6.h sub/conftest.Po >/dev/null 2>&1 &&
grep sub/conftest.${OBJEXT-o} sub/conftest.Po >/dev/null 2>&1 &&
${MAKE-make} -s -f confmf >/dev/null 2>&1; then
# icc doesn't choke on unknown options, it will just issue warnings
# or remarks (even with -Werror). So we grep stderr for any message
# that says an option was ignored or not supported.
# When given -MP, icc 7.0 and 7.1 complain thusly:
# icc: Command line warning: ignoring option '-M'; no argument required
# The diagnosis changed in icc 8.0:
# icc: Command line remark: option '-MP' not supported
if (grep 'ignoring option' conftest.err ||
grep 'not supported' conftest.err) >/dev/null 2>&1; then ;; else
am_cv_$1_dependencies_compiler_type=$depmode
break
fi
fi
done

cd ..
rm -rf conftest.dir
else
am_cv_$1_dependencies_compiler_type=none
fi
])
AC_SUBST([$1DEPMODE], [depmode=$am_cv_$1_dependencies_compiler_type])
AM_CONDITIONAL([am__fastdep$1], [
test "x$enable_dependency_tracking" != xno \
&& test "$am_cv_$1_dependencies_compiler_type" = gcc3])
])

```

```

# AM_SET_DEPDIR
# -----
# Choose a directory name for dependency files.
# This macro is AC_REQUIRED in _AM_DEPENDENCIES
AC_DEFUN([AM_SET_DEPDIR],
[AC_REQUIRE([AM_SET_LEADING_DOT])dnl
AC_SUBST([DEPDIR], ["${am__leading_dot}deps"])dnl
])

# AM_DEP_TRACK
# -----
AC_DEFUN([AM_DEP_TRACK],
[AC_ARG_ENABLE(dependency-tracking,
[ --disable-dependency-tracking speeds up one-time build
 --enable-dependency-tracking do not reject slow dependency extractors])
if test "x$enable_dependency_tracking" != xno; then
  am_depcomp="$ac_aux_dir/depcomp"
  AMDEPBACKSLASH='\
fi
AM_CONDITIONAL([AMDEP], [test "x$enable_dependency_tracking" != xno])
AC_SUBST([AMDEPBACKSLASH])dnl
_AM_SUBST_NOTMAKE([AMDEPBACKSLASH])dnl
])

# Generate code to set up dependency tracking.      -*- Autoconf -*-

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#serial 3

# _AM_OUTPUT_DEPENDENCY_COMMANDS
# -----
AC_DEFUN([_AM_OUTPUT_DEPENDENCY_COMMANDS],
[for mf in $CONFIG_FILES; do
  # Strip MF so we end up with the name of the file.
  mf=`echo "$mf" | sed -e 's/:.*$//'`
  # Check whether this is an Automake generated Makefile or not.
  # We used to match only the files named 'Makefile.in', but
  # some people rename them; so instead we look at the file content.
  # Grep'ing the first line is not enough: some people post-process
  # each Makefile.in and add a new line on top of each file to say so.

```

```

# Grep'ing the whole file is not good either: AIX grep has a line
# limit of 2048, but all sed's we know have understand at least 4000.
if sed -n 's,^#.*generated by automake.*,X,p' "$mf" | grep X >/dev/null 2>&1; then
  dirpart='AS_DIRNAME("$mf")'
else
  continue
fi
# Extract the definition of DEPDIR, am__include, and am__quote
# from the Makefile without running 'make'.
DEPDIR='sed -n 's/^DEPDIR = //p' < "$mf"'
test -z "$DEPDIR" && continue
am__include='sed -n 's/^am__include = //p' < "$mf"'
test -z "am__include" && continue
am__quote='sed -n 's/^am__quote = //p' < "$mf"'
# When using ansi2knr, U may be empty or an underscore; expand it
U='sed -n 's/^U = //p' < "$mf"'
# Find all dependency output files, they are included files with
# $(DEPDIR) in their names. We invoke sed twice because it is the
# simplest approach to changing $(DEPDIR) to its actual value in the
# expansion.
for file in `sed -n "
s/^\$am__include \$am__quote\(.*(DEPDIR).*\)$am__quote"$/\1/p' <"$mf" | \
  sed -e 's/\$(DEPDIR)/"$DEPDIR"/g' -e 's/\$U/"$U"/g'; do
# Make sure the directory exists.
test -f "$dirpart/$file" && continue
fdir='AS_DIRNAME(["$file"])'
AS_MKDIR_P([$dirpart/$fdir])
# echo "creating $dirpart/$file"
echo '# dummy' > "$dirpart/$file"
done
done
)]# _AM_OUTPUT_DEPENDENCY_COMMANDS

# AM_OUTPUT_DEPENDENCY_COMMANDS
# -----
# This macro should only be invoked once -- use via AC_REQUIRE.
#
# This code is only required when automatic dependency tracking
# is enabled. FIXME. This creates each '.P' file that we will
# need in order to bootstrap the dependency handling code.
AC_DEFUN([AM_OUTPUT_DEPENDENCY_COMMANDS],
[AC_CONFIG_COMMANDS([depfiles],
  [test x"$AMDEP_TRUE" != x"" || _AM_OUTPUT_DEPENDENCY_COMMANDS],
  [AMDEP_TRUE="$AMDEP_TRUE" ac_aux_dir="$ac_aux_dir"])
])

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```

```

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# serial 8

# AM_CONFIG_HEADER is obsolete. It has been replaced by AC_CONFIG_HEADERS.
AU_DEFUN([AM_CONFIG_HEADER], [AC_CONFIG_HEADERS($@)])

# Do all the work for Automake.          -*- Autoconf -*-

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# serial 13

# This macro actually does too much. Some checks are only needed if
# your package does certain things. But this isn't really a big deal.

# AM_INIT_AUTOMAKE(PACKAGE, VERSION, [NO-DEFINE])
# AM_INIT_AUTOMAKE([OPTIONS])
# -----
# The call with PACKAGE and VERSION arguments is the old style
# call (pre autoconf-2.50), which is being phased out. PACKAGE
# and VERSION should now be passed to AC_INIT and removed from
# the call to AM_INIT_AUTOMAKE.
# We support both call styles for the transition. After
# the next Automake release, Autoconf can make the AC_INIT
# arguments mandatory, and then we can depend on a new Autoconf
# release and drop the old call support.
AC_DEFUN([AM_INIT_AUTOMAKE],
[AC_PREREQ([2.60])dnl
dnl Autoconf wants to disallow AM_ names. We explicitly allow
dnl the ones we care about.
m4_pattern_allow([AM_[A-Z]+FLAGS$])dnl
AC_REQUIRE([AM_SET_CURRENT_AUTOMAKE_VERSION])dnl
AC_REQUIRE([AC_PROG_INSTALL])dnl
if test "cd $srcdir && pwd" != "pwd"; then
# Use -I$(srcdir) only when $(srcdir) != ., so that make's output
# is not polluted with repeated "-I."
AC_SUBST([am__isrc], [' -I$(srcdir)'])_AM_SUBST_NOTMAKE([am__isrc])dnl
# test to see if srcdir already configured

```

```

if test -f $srcdir/config.status; then
  AC_MSG_ERROR([source directory already configured; run "make distclean" there first])
fi
fi

# test whether we have cygpath
if test -z "$CYGPATH_W"; then
  if (cygpath --version) >/dev/null 2>/dev/null; then
    CYGPATH_W='cygpath -w'
  else
    CYGPATH_W=echo
  fi
fi
AC_SUBST([CYGPATH_W])

# Define the identity of the package.
dnl Distinguish between old-style and new-style calls.
m4_ifval([$2],
[
m4_ifval([$3], [_AM_SET_OPTION([no-define]))]dnl
AC_SUBST([PACKAGE], [$1])dnl
AC_SUBST([VERSION], [$2]),
[_AM_SET_OPTIONS([$1])dnl
dnl Diagnose old-style AC_INIT with new-style AM_AUTOMAKE_INIT.
m4_if(m4_ifdef([AC_PACKAGE_NAME], 1)m4_ifdef([AC_PACKAGE_VERSION], 1), 11,,
[m4_fatal([AC_INIT should be called with package and version arguments]))]dnl
AC_SUBST([PACKAGE], ['AC_PACKAGE_TARNAME'])dnl
AC_SUBST([VERSION], ['AC_PACKAGE_VERSION'])]dnl

_AM_IF_OPTION([no-define],,
[AC_DEFINE_UNQUOTED(PACKAGE, "$PACKAGE", [Name of package])
AC_DEFINE_UNQUOTED(VERSION, "$VERSION", [Version number of package])])dnl

# Some tools Automake needs.
AC_REQUIRE([AM_SANITY_CHECK])dnl
AC_REQUIRE([AC_ARG_PROGRAM])dnl
AM_MISSING_PROG(ACLOCAL, aclocal-${am__api_version})
AM_MISSING_PROG(AUTOCONF, autoconf)
AM_MISSING_PROG(AUTOMAKE, automake-${am__api_version})
AM_MISSING_PROG(AUTOHEADER, autoheader)
AM_MISSING_PROG(MAKEINFO, makeinfo)
AM_PROG_INSTALL_SH
AM_PROG_INSTALL_STRIP
AC_REQUIRE([AM_PROG_MKDIR_P])dnl
# We need awk for the "check" target. The system "awk" is bad on
# some platforms.
AC_REQUIRE([AC_PROG_AWK])dnl
AC_REQUIRE([AC_PROG_MAKE_SET])dnl
AC_REQUIRE([AM_SET_LEADING_DOT])dnl

```



```

_AM_IF_OPTION([tar-ustar], [_AM_PROG_TAR([ustar]),
    [_AM_IF_OPTION([tar-pax], [_AM_PROG_TAR([pax]),
        [_AM_PROG_TAR([v7])])])])
_AM_IF_OPTION([no-dependencies],,
[AC_PROVIDE_IFELSE([AC_PROG_CC],
    [_AM_DEPENDENCIES(CC)],
    [define([AC_PROG_CC],
        defn([AC_PROG_CC])[_AM_DEPENDENCIES(CC)])])dnl
AC_PROVIDE_IFELSE([AC_PROG_CXX],
    [_AM_DEPENDENCIES(CXX)],
    [define([AC_PROG_CXX],
        defn([AC_PROG_CXX])[_AM_DEPENDENCIES(CXX)])])dnl
AC_PROVIDE_IFELSE([AC_PROG_OBJC],
    [_AM_DEPENDENCIES(OBJC)],
    [define([AC_PROG_OBJC],
        defn([AC_PROG_OBJC])[_AM_DEPENDENCIES(OBJC)])])dnl
)
)

# When config.status generates a header, we must update the stamp-h file.
# This file resides in the same directory as the config header
# that is generated. The stamp files are numbered to have different names.

# Autoconf calls _AC_AM_CONFIG_HEADER_HOOK (when defined) in the
# loop where config.status creates the headers, so we can generate
# our stamp files there.
AC_DEFUN([_AC_AM_CONFIG_HEADER_HOOK],
[# Compute $1's index in $config_headers.
_am_arg=$1
_am_stamp_count=1
for _am_header in $config_headers ;; do
case $_am_header in
    $_am_arg | $_am_arg:* )
        break ;;
    * )
        _am_stamp_count=`expr $_am_stamp_count + 1` ;;
esac
done
echo "timestamp for $_am_arg" >'AS_DIRNAME(["$_am_arg"])/stamp-h[[$_am_stamp_count]]

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# AM_PROG_INSTALL_SH

```

```

# -----
# Define $install_sh.
AC_DEFUN([AM_PROG_INSTALL_SH],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
install_sh=${install_sh-"$(SHELL) $am_aux_dir/install-sh" }
AC_SUBST(install_sh)])

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# serial 2

# Check whether the underlying file-system supports filenames
# with a leading dot. For instance MS-DOS doesn't.
AC_DEFUN([AM_SET_LEADING_DOT],
[rm -rf .tst 2>/dev/null
mkdir .tst 2>/dev/null
if test -d .tst; then
  am__leading_dot=.
else
  am__leading_dot=_
fi
rmdir .tst 2>/dev/null
AC_SUBST([am__leading_dot])])

# Check to see how 'make' treats includes.      -*- Autoconf -*-

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# serial 3

# AM_MAKE_INCLUDE()
# -----
# Check to see how make treats includes.
AC_DEFUN([AM_MAKE_INCLUDE],
[am_make=${MAKE-make}
cat > confinc << 'END'
am__doit:
  @echo done
.PHONY: am__doit
END

```

```

# If we don't find an include directive, just comment out the code.
AC_MSG_CHECKING([for style of include used by $am_make])
am__include="#"
am__quote=
_am_result=none
# First try GNU make style include.
echo "include confinc" > confmf
# We grep out 'Entering directory' and 'Leaving directory'
# messages which can occur if 'w' ends up in MAKEFLAGS.
# In particular we don't look at '^make:' because GNU make might
# be invoked under some other name (usually "gmake"), in which
# case it prints its new name instead of 'make'.
if test "$am_make -s -f confmf 2> /dev/null | grep -v 'ing directory'" = "done"; then
  am__include=include
  am__quote=
  _am_result=GNU
fi
# Now try BSD make style include.
if test "$am__include" = "#"; then
  echo '.include "confinc"' > confmf
  if test "$am_make -s -f confmf 2> /dev/null" = "done"; then
    am__include=.include
    am__quote=""
    _am_result=BSD
  fi
fi
AC_SUBST([am__include])
AC_SUBST([am__quote])
AC_MSG_RESULT([$_am_result])
rm -f confinc confmf
)

```

```

# Fake the existence of programs that GNU maintainers use. -*- Autoconf -*-

```

```

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```

```

# serial 5

```

```

# AM_MISSING_PROG(NAME, PROGRAM)
# -----
AC_DEFUN([AM_MISSING_PROG],
[AC_REQUIRE([AM_MISSING_HAS_RUN])
$1=${$1-"${am_missing_run}$2"}

```

AC_SUBST(\$1))

```
# AM_MISSING_HAS_RUN
# -----
# Define MISSING if not defined so far and test if it supports --run.
# If it does, set am_missing_run to use it, otherwise, to nothing.
AC_DEFUN([AM_MISSING_HAS_RUN],
[AC_REQUIRE([AM_AUX_DIR_EXPAND])dnl
AC_REQUIRE_AUX_FILE([missing])dnl
test x"${MISSING+set}" = xset || MISSING="\${SHELL} $am_aux_dir/missing"
# Use eval to expand $SHELL
if eval "$MISSING --run true"; then
  am_missing_run="$MISSING --run "
else
  am_missing_run=
  AC_MSG_WARN(['missing' script is too old or missing])
fi
])
```

```
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```

```
# AM_PROG_MKDIR_P
# -----
# Check for 'mkdir -p'.
AC_DEFUN([AM_PROG_MKDIR_P],
[AC_PREREQ([2.60])dnl
AC_REQUIRE([AC_PROG_MKDIR_P])dnl
dnl Automake 1.8 to 1.9.6 used to define mkdir_p. We now use MKDIR_P,
dnl while keeping a definition of mkdir_p for backward compatibility.
dnl @MKDIR_P@ is magic: AC_OUTPUT adjusts its value for each Makefile.
dnl However we cannot define mkdir_p as $(MKDIR_P) for the sake of
dnl Makefile.ins that do not define MKDIR_P, so we do our own
dnl adjustment using top_builddir (which is defined more often than
dnl MKDIR_P).
AC_SUBST([mkdir_p], ["$MKDIR_P"])dnl
case $mkdir_p in
  [[\V$]]* | ?:[[V]]* ;;
  /*) mkdir_p="\$(top_builddir)/$mkdir_p" ;;
esac
])
```

```
# Helper functions for option handling.          -*- Autoconf -*-
```

```

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# serial 3

# _AM_MANGLE_OPTION(NAME)
# -----
AC_DEFUN([_AM_MANGLE_OPTION],
[[_AM_OPTION_]m4_bpatsubst($1, [[^a-zA-Z0-9_]], [_])])

# _AM_SET_OPTION(NAME)
# -----
# Set option NAME. Presently that only means defining a flag for this option.
AC_DEFUN([_AM_SET_OPTION],
[m4_define(_AM_MANGLE_OPTION([$1]), 1)])

# _AM_SET_OPTIONS(OPTIONS)
# -----
# OPTIONS is a space-separated list of Automake options.
AC_DEFUN([_AM_SET_OPTIONS],
[AC_FOREACH([_AM_Option], [$1], [_AM_SET_OPTION(_AM_Option)])])

# _AM_IF_OPTION(OPTION, IF-SET, [IF-NOT-SET])
# -----
# Execute IF-SET if OPTION is set, IF-NOT-SET otherwise.
AC_DEFUN([_AM_IF_OPTION],
[m4_ifset(_AM_MANGLE_OPTION([$1]), [$2], [$3])])

# Check to make sure that the build environment is sane.  -*- Autoconf -*-

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# serial 4

# AM_SANITY_CHECK
# -----
AC_DEFUN([AM_SANITY_CHECK],
[AC_MSG_CHECKING([whether build environment is sane])
# Just in case
sleep 1

```

```

echo timestamp > conftest.file
# Do 'set' in a subshell so we don't clobber the current shell's
# arguments. Must try -L first in case configure is actually a
# symlink; some systems play weird games with the mod time of symlinks
# (eg FreeBSD returns the mod time of the symlink's containing
# directory).
if (
  set X 'ls -Lt $srcdir/configure conftest.file 2> /dev/null'
  if test "$[*]" = "X"; then
    # -L didn't work.
    set X 'ls -t $srcdir/configure conftest.file'
  fi
  rm -f conftest.file
  if test "$[*]" != "X $srcdir/configure conftest.file" \
    && test "$[*]" != "X conftest.file $srcdir/configure"; then

    # If neither matched, then we have a broken ls. This can happen
    # if, for instance, CONFIG_SHELL is bash and it inherits a
    # broken ls alias from the environment. This has actually
    # happened. Such a system could not be considered "sane".
    AC_MSG_ERROR([ls -t appears to fail. Make sure there is not a broken
alias in your environment])
  fi

  test "$[2]" = conftest.file
)
then
  # Ok.
  :
else
  AC_MSG_ERROR([newly created file is older than distributed files!
Check your system clock])
fi
AC_MSG_RESULT(yes))

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# AM_PROG_INSTALL_STRIP
# -----
# One issue with vendor 'install' (even GNU) is that you can't
# specify the program used to strip binaries. This is especially
# annoying in cross-compiling environments, where the build's strip
# is unlikely to handle the host's binaries.
# Fortunately install-sh will honor a STRIPPROG variable, so we

```

```

# always use install-sh in 'make install-strip', and initialize
# STRIPPROG with the value of the STRIP variable (set by the user).
AC_DEFUN([AM_PROG_INSTALL_STRIP],
[AC_REQUIRE([AM_PROG_INSTALL_SH])dnl
# Installed binaries are usually stripped using 'strip' when the user
# run 'make install-strip'. However 'strip' might not be the right
# tool to use in cross-compilation environments, therefore Automake
# will honor the 'STRIP' environment variable to overrule this program.
dnl Don't test for $cross_compiling = yes, because it might be 'maybe'.
if test "$cross_compiling" != no; then
  AC_CHECK_TOOL([STRIP], [strip], :)
fi
INSTALL_STRIP_PROGRAM="\$(install_sh) -c -s"
AC_SUBST([INSTALL_STRIP_PROGRAM]))

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# _AM_SUBST_NOTMAKE(VARIABLE)
# -----
# Prevent Automake from outputting VARIABLE = @VARIABLE@ in Makefile.in.
# This macro is traced by Automake.
AC_DEFUN([_AM_SUBST_NOTMAKE])

# Check how to create a tarball.          -*- Autoconf -*-

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# serial 2

# _AM_PROG_TAR(FORMAT)
# -----
# Check how to create a tarball in format FORMAT.
# FORMAT should be one of 'v7', 'ustar', or 'pax'.
#
# Substitute a variable $(am__tar) that is a command
# writing to stdout a FORMAT-tarball containing the directory
# $stardir.
#   stardir=directory && $(am__tar) > result.tar
#
# Substitute a variable $(am__untar) that extract such

```

```

# a tarball read from stdin.
# $(am__untar) < result.tar
AC_DEFUN([_AM_PROG_TAR],
[# Always define AMTAR for backward compatibility.
AM_MISSING_PROG([AMTAR], [tar])
m4_if([$1], [v7],
  [am__tar='${AMTAR} chof - "$$stardir"; am__untar='${AMTAR} xf -'],
  [m4_case([$1], [ustar],, [pax],,
    [m4_fatal([Unknown tar format])])])
AC_MSG_CHECKING([how to create a $1 tar archive])
# Loop over all known methods to create a tar archive until one works.
_am_tools='gnutar m4_if([$1], [ustar], [plaintar]) pax cpio none'
_am_tools=${am_cv_prog_tar_$1-$_am_tools}
# Do not fold the above two line into one, because Tru64 sh and
# Solaris sh will not grok spaces in the rhs of '-'.
for _am_tool in $_am_tools
do
case $_am_tool in
gnutar)
  for _am_tar in tar gnutar gtar;
  do
    AM_RUN_LOG([$_am_tar --version]) && break
  done
  am__tar="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - ""$$stardir""
  am__tar_="$_am_tar --format=m4_if([$1], [pax], [posix], [$1]) -chf - ""$stardir""
  am__untar="$_am_tar -xf -"
  ;;
plaintar)
  # Must skip GNU tar: if it does not support --format= it doesn't create
  # ustar tarball either.
  (tar --version) >/dev/null 2>&1 && continue
  am__tar='tar chf - "$$stardir"'
  am__tar_='tar chf - "$stardir"'
  am__untar='tar xf -'
  ;;
pax)
  am__tar='pax -L -x $1 -w "$$stardir"'
  am__tar_='pax -L -x $1 -w "$stardir"'
  am__untar='pax -r'
  ;;
cpio)
  am__tar='find "$$stardir" -print | cpio -o -H $1 -L'
  am__tar_='find "$stardir" -print | cpio -o -H $1 -L'
  am__untar='cpio -i -H $1 -d'
  ;;
none)
  am__tar=false
  am__tar_=false

```



```

    am__untar=false
    ;;
esac

# If the value was cached, stop now. We just wanted to have am__tar
# and am__untar set.
test -n "${am_cv_prog_tar_$1}" && break

# tar/untar a dummy directory, and stop if the command works
rm -rf conftest.dir
mkdir conftest.dir
echo GrepMe > conftest.dir/file
AM_RUN_LOG([tardir=conftest.dir && eval $am__tar_ >conftest.tar])
rm -rf conftest.dir
if test -s conftest.tar; then
  AM_RUN_LOG([$am__untar <conftest.tar])
  grep GrepMe conftest.dir/file >/dev/null 2>&1 && break
fi
done
rm -rf conftest.dir

AC_CACHE_VAL([am_cv_prog_tar_$1], [am_cv_prog_tar_$1=$_am_tool])
AC_MSG_RESULT([$am_cv_prog_tar_$1])
AC_SUBST([am__tar])
AC_SUBST([am__untar])
]) # _AM_PROG_TAR

#!/bin/sh
# Common stub for a few missing GNU programs while installing.

scriptversion=2003-09-02.23

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# Originally by Fran,cois Pinard <pinard@iro.umontreal.ca>, 1996.

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```
if test $# -eq 0; then
  echo 1>&2 "Try '$0 --help' for more information"
  exit 1
fi
/*
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 */
```

1.156 libffi 3.0.5 :3.2.el6

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Written by Tom Tromey <tromey@cygnus.com>.

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----- */

1.157 libgcrypt 1.4.5 :9.el6_2.2

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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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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.

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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

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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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1.162 libICE 1.0.6 :1.e16

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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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1.167 libjpeg-turbo 1.2.1 :1.e16

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DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly

the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to

be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression,

applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from <http://www.ecma-international.org/publications/techreports/E-TR-098.htm>. A PostScript version of the JFIF document is available at <http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at <http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision

of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsr.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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FILE FORMAT WARS

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The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR", which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

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```
printf("%s",png_get_copyright(NULL));
```

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glennrp at users.sourceforge.net

March 29, 2012

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1.173 libpq 8.4.7

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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.

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That's all there is to it!

1.177 libSM 1.2.1 :Jan 11 2012 Matt Dew

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1.178 libssh2 1.2.2 :7.el6_2.3

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1.180 libtasn1 2.3 :3.el6_2.1

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```
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```

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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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1.182 libtiff 3.9.4 :9.e16_3

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1.183 libtool 2.2.6 :15.5.e16

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%

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% texindex foo.??

% tex foo.texi

% tex foo.texi

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%

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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

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1.184 libtool_libltdl 2.2.6 :15.5.e16

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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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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.

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ltmain.sh - Provide generalized library-building support services.

NOTE: Changing this file will not affect anything until you rerun configure.

#

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1.188 libuuid 2.17.2 :12.9.e16

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```

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```
/*
 * BSD/OSF partition parsing code
 *
 * Copyright (C) 2009 Karel Zak <kzak@redhat.com>
 *
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 * GNU Lesser General Public License.
 *
 * Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.
 */
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <stdint.h>

#include "partitions.h"

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED 0

struct bsd_disklabel {
    uint32_t d_magic; /* the magic number */
    int16_t d_type; /* drive type */
    int16_t d_subtype; /* controller/d_type specific */
    char d_typename[16]; /* type name, e.g. "eagle" */
    char d_packname[16]; /* pack identifier */

    /* disk geometry: */
    uint32_t d_sectsize; /* # of bytes per sector */
    uint32_t d_nsectors; /* # of data sectors per track */
    uint32_t d_ntracks; /* # of tracks per cylinder */
    uint32_t d_ncylinders; /* # of data cylinders per unit */
    uint32_t d_secpercyl; /* # of data sectors per cylinder */
    uint32_t d_secperunit; /* # of data sectors per unit */

    /*
     * Spares (bad sector replacements) below
     * are not counted in d_nsectors or d_secpercyl.
     */
};
```

```

* Spare sectors are assumed to be physical sectors
* which occupy space at the end of each track and/or cylinder.
*/
uint16_t d_sperstrack; /* # of spare sectors per track */
uint16_t d_sperpercyl; /* # of spare sectors per cylinder */

/*
* Alternate cylinders include maintenance, replacement,
* configuration description areas, etc.
*/
uint32_t d_acylinders; /* # of alt. cylinders per unit */

/* hardware characteristics: */
/*
* d_interleave, d_trackskew and d_cylskew describe perturbations
* in the media format used to compensate for a slow controller.
* Interleave is physical sector interleave, set up by the formatter
* or controller when formatting. When interleaving is in use,
* logically adjacent sectors are not physically contiguous,
* but instead are separated by some number of sectors.
* It is specified as the ratio of physical sectors traversed
* per logical sector. Thus an interleave of 1:1 implies contiguous
* layout, while 2:1 implies that logical sector 0 is separated
* by one sector from logical sector 1.
* d_trackskew is the offset of sector 0 on track N
* relative to sector 0 on track N-1 on the same cylinder.
* Finally, d_cylskew is the offset of sector 0 on cylinder N
* relative to sector 0 on cylinder N-1.
*/
uint16_t d_rpm; /* rotational speed */
uint16_t d_interleave; /* hardware sector interleave */
uint16_t d_trackskew; /* sector 0 skew, per track */
uint16_t d_cylskew; /* sector 0 skew, per cylinder */
uint32_t d_headswitch; /* head switch time, usec */
uint32_t d_trkseek; /* track-to-track seek, usec */
uint32_t d_flags; /* generic flags */
uint32_t d_drivedata[5]; /* drive-type specific information */
uint32_t d_spare[5]; /* reserved for future use */
uint32_t d_magic2; /* the magic number (again) */
uint16_t d_checksum; /* xor of data incl. partitions */

/* filesystem and partition information: */
uint16_t d_npartitions; /* number of partitions in following */
uint32_t d_bbsize; /* size of boot area at sn0, bytes */
uint32_t d_sbsize; /* max size of fs superblock, bytes */

struct bsd_partition { /* the partition table */
    uint32_t p_size; /* number of sectors in partition */

```

```

uint32_t p_offset;    /* starting sector */
uint32_t p_fsize;    /* filesystem basic fragment size */
uint8_t p_fstype;    /* filesystem type, see below */
uint8_t p_frag;     /* filesystem fragments per block */
uint16_t p_cpg;     /* filesystem cylinders per group */
} __attribute__((packed)) d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));

```

```

/* Returns 'blkid_idmag' in 512-sectors */
#define BLKID_MAG_SECTOR(_mag) (((_mag)->kboff * 2) + ((_mag)->sboff >> 9))

```

```

/* Returns 'blkid_idmag' in bytes */
#define BLKID_MAG_OFFSET(_mag) ((_mag)->kboff >> 10) + ((_mag)->sboff)

```

```

/* Returns 'blkid_idmag' offset in bytes within the last sector */
#define BLKID_MAG_LASTOFFSET(_mag) \
    (BLKID_MAG_OFFSET(_mag) - (BLKID_MAG_SECTOR(_mag) << 9))

```

```

static int probe_bsd_pt(blkid_probe pr, const struct blkid_idmag *mag)

```

```

{
    struct bsd_disklabel *l;
    struct bsd_partition *p;
    const char *name = "bsd" ;
    blkid_parttable tab = NULL;
    blkid_partition parent;
    blkid_partlist ls;
    int i, nparts = BSD_MAXPARTITIONS;
    unsigned char *data;

    if (blkid_partitions_need_typeonly(pr))
        /* caller does not ask for details about partitions */
        return 0;

    data = blkid_probe_get_sector(pr, BLKID_MAG_SECTOR(mag));
    if (!data)
        goto nothing;

    l = (struct bsd_disklabel *) data + BLKID_MAG_LASTOFFSET(mag);

    ls = blkid_probe_get_partlist(pr);
    if (!ls)
        goto err;

    /* try to determine the real type of BSD system according to
     * (parental) primary partition */
    parent = blkid_partlist_get_parent(ls);
    if (parent) {

```

```

switch(blkid_partition_get_type(parent)) {
case BLKID_FREEBSD_PARTITION:
    name = "freebsd";
    break;
case BLKID_NETBSD_PARTITION:
    name = "netbsd";
    break;
case BLKID_OPENBSD_PARTITION:
    name = "openbsd";
    break;
default:
    DBG(DEBUG_LOWPROBE, printf(
        "WARNING: BSD label detected on unknown (0x%x) "
        "primary partition\n",
        blkid_partition_get_type(parent)));
    break;
}
}

tab = blkid_partlist_new_parttable(ls, name, BLKID_MAG_OFFSET(mag));
if (!tab)
    goto err;

if (le16_to_cpu(l->d_npartitions) < BSD_MAXPARTITIONS)
    nparts = le16_to_cpu(l->d_npartitions);

else if (le16_to_cpu(l->d_npartitions) > BSD_MAXPARTITIONS)
    DBG(DEBUG_LOWPROBE, printf(
        "WARNING: ignore %d more BSD partitions\n",
        le16_to_cpu(l->d_npartitions) - BSD_MAXPARTITIONS));

for (i = 0, p = l->d_partitions; i < nparts; i++, p++) {
    uint32_t start, size;

    /* TODO: in fdisk-mode returns all non-zero (p_size) partitions */
    if (p->p_fstype == BSD_FS_UNUSED)
        continue;

    start = le32_to_cpu(p->p_offset);
    size = le32_to_cpu(p->p_size);

    if (parent && !blkid_is_nested_dimension(parent, start, size)) {
        DBG(DEBUG_LOWPROBE, printf(
            "WARNING: BSD partition (%d) overflow "
            "detected, ignore\n", i));
        continue;
    }
}

```



```

if (!blkid_partlist_add_partition(ls, tab, p->p_fstype, start, size))
    goto err;
}

return 0;

nothing:
return 1;
err:
return -1;
}

/*
 * All BSD variants use the same magic string (little-endian),
 * and the same disklabel.
 *
 * The difference between {Free,Open,...}BSD is in the (parental)
 * primary partition type.
 *
 * See also: http://en.wikipedia.org/wiki/BSD\_disklabel
 *
 * The location of BSD disk label is architecture specific and is defined by
 * LABELSECTOR and LABELOFFSET macros in the disklabel.h file. The location
 * also depends on BSD variant, FreeBSD uses only one location, NetBSD and
 * OpenBSD are more creative...
 *
 * The basic overview:
 *
 * arch          | LABELSECTOR | LABELOFFSET
 * -----+-----+-----
 * amd64 arm hppa hppa64 |      |
 * i386, macppc, mvmeppc |  1  |  0
 * sgi, aviion, sh, socppc |      |
 * -----+-----+-----
 * alpha luna88k mac68k |  0  |  64
 * sparc(OpenBSD) vax   |      |
 * -----+-----+-----
 * spark64 sparc(NetBSD) |  0  | 128
 * -----+-----+-----
 *
 * ...and more (see http://fxr.watson.org/fxr/ident?v=NETBSD;i=LABELSECTOR)
 *
 */
const struct blkid_idinfo bsd_pt_idinfo =
{
    .name = "bsd",
    .probfunc = probe_bsd_pt,

```

```

.magics =
{
  { .magic = "\x57\x45\x56\x82", .len = 4, .sboff = 512 },
  { .magic = "\x57\x45\x56\x82", .len = 4, .sboff = 64 },
  { .magic = "\x57\x45\x56\x82", .len = 4, .sboff = 128 },
  { NULL }
}
};
#include <stdio.h>
#include "partx.h"

#define BSD_DISKMAGIC (0x82564557UL) /* The disk magic number */
#define XBSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED 0

struct bsd_disklabel {
  unsigned int d_magic; /* the magic number */
  short int d_type; /* drive type */
  short int d_subtype; /* controller/d_type specific */
  char d_typename[16]; /* type name, e.g. "eagle" */
  char d_packname[16]; /* pack identifier */
  unsigned int d_sectsize; /* # of bytes per sector */
  unsigned int d_nsectors; /* # of data sectors per track */
  unsigned int d_ntracks; /* # of tracks per cylinder */
  unsigned int d_ncylinders; /* # of data cylinders per unit */
  unsigned int d_secpercyl; /* # of data sectors per cylinder */
  unsigned int d_secperunit; /* # of data sectors per unit */
  unsigned short d_sparepertrack; /* # of spare sectors per track */
  unsigned short d_sparepercyl; /* # of spare sectors per cylinder */
  unsigned int d_acylinders; /* # of alt. cylinders per unit */
  unsigned short d_rpm; /* rotational speed */
  unsigned short d_interleave; /* hardware sector interleave */
  unsigned short d_trackskew; /* sector 0 skew, per track */
  unsigned short d_cylskew; /* sector 0 skew, per cylinder */
  unsigned int d_headswitch; /* head switch time, usec */
  unsigned int d_trkseek; /* track-to-track seek, usec */
  unsigned int d_flags; /* generic flags */
  unsigned int d_drivedata[5]; /* drive-type specific information */
  unsigned int d_spare[5]; /* reserved for future use */
  unsigned int d_magic2; /* the magic number (again) */
  unsigned short d_checksum; /* xor of data incl. partitions */

  /* filesystem and partition information: */
  unsigned short d_npartitions; /* number of partitions in following */
  unsigned int d_bbsize; /* size of boot area at sn0, bytes */
  unsigned int d_sbsize; /* max size of fs superblock, bytes */
  struct bsd_partition { /* the partition table */
    unsigned int p_size; /* number of sectors in partition */

```

```

unsigned int p_offset; /* starting sector */
unsigned int p_fsize; /* filesystem basic fragment size */
unsigned char p_fstype; /* filesystem type, see below */
unsigned char p_frag; /* filesystem fragments per block */
unsigned short p_cpg; /* filesystem cylinders per group */
} d_partitions[XBSD_MAXPARTITIONS]; /* actually may be more */
};

```

```
int
```

```

read_bsd_pt(int fd, struct slice all, struct slice *sp, int ns) {
    struct bsd_disklabel *l;
    struct bsd_partition *p;
    unsigned int offset = all.start;
    int max_partitions;
    unsigned char *bp;
    int n = 0;

```

```

    bp = getblock(fd, offset+1); /* 1 sector suffices */
    if (bp == NULL)
        return -1;

```

```

    l = (struct bsd_disklabel *) bp;
    if (l->d_magic != BSD_DISKMAGIC)
        return -1;

```

```

    max_partitions = 16;
    if (l->d_npartitions < max_partitions)
        max_partitions = l->d_npartitions;
    for (p = l->d_partitions; p - l->d_partitions < max_partitions; p++) {
        if (p->p_fstype == BSD_FS_UNUSED)
            /* nothing */;
        else if (n < ns) {
            sp[n].start = p->p_offset;
            sp[n].size = p->p_size;
            n++;
        } else {
            fprintf(stderr,
                "bsd_partition: too many slices\n");
            break;
        }
    }
    return n;
}
/*

```

```
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```

```
*
```

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Version 2, June 1991

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```

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```

```
<signature of Ty Coon>, 1 April 1989
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1.195 libXext 1.3.1 :Sep 28 2011 Alan

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1.196 libXfixes 5.0 :3.el6

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1.197 libXft 2.3.1 :2.e16

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1.198 libXi 1.6.1 :Apr 23 2012 Peter Hutterer

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1.199 libXinerama 1.1.2 :2.el6

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1.200 libxml2 2.7.6 :4.e16_2.4

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1.202 libXrender 0.9.7 :Jan 2 2012 Emanuele Giaquinta

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1.203 libXxf86vm 1.1.2 :2.e16

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1.204 Ildpad 0.9.43 :18.el6

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1.208 Isof 4.82 :4.el6

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1.210 lvm2 2.02.95 :10.el6

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1.212 mailcap 2.1.31 :2.el6

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Tom Callaway, Fedora Legal, Red Hat
Thu Sep 17, 2009

1.213 make 3.81 :20.el6

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

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1.215 mesa 9.0 :0.7.el6

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Mesa 3-D graphics library

Version: 7.0

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Client application for querying drivers' configuration information

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1.216 mesa-dri1-drivers 7.11 :8.e16

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1.218 module-init-tools 3.9 :20.el6

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# Originally written by Per Bothner <per@bothner.com>.
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
```

1.221 net-snmp 5.5 :44.el6

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1.222 net-snmp 5.5 :44.el6_4.1

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1.226 nfs-utils 1.2.3 :26.el6

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Version 1.1

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jpg "Clone me," says Dolly sheepishly

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2. [2]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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- <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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 7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
 8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
 9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
 10. [11]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
 11. [12]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
 12. [13]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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 14. [15]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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 28. [31]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
 29. [32]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
 30. [33]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
 31. [34]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
 32. [35]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;

- audio clock drivers: CHU, WWV/H, IRIG
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 37. [40]Derek Mulcahy <derek@toybox.demon.co.uk> and [41]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
 38. [42]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
 39. [43]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
 40. [44]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
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 42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
 43. [47]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
 44. [48]Michael Shields <shields@tembel.org> USNO clock driver
 45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
 46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
 47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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 50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
-

References

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Received: from [139.134.6.79] by whimsy.udel.edu id aa15476;
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Received: from CPE-61-9-164-106.vic.bigpond.net.au
([139.134.4.52]) by mailin6.bigpond.com (Netscape Messaging
Server 4.15) with SMTP id G8UFIB00.4QI for

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Received: from CPE-61-9-164-110.vic.bigpond.net.au ([61.9.164.110]) by mail5.bigpond.com (Claudes-Retiring-MailRouter V2.9c 9/11963672); 16 Feb 2001 19:20:45
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by CPE-61-9-164-106.vic.bigpond.net.au (8.11.0/8.11.0) id f1G92GC29158
for <stenn@whimsy.udel.edu>; Fri, 16 Feb 2001 20:02:16 +1100
From: Darren Reed <darrenr@reed.wattle.id.au>
Message-Id: <200102160901.UAA23657@avalon.reed.wattle.id.au>
Subject: Re: arlib?
In-Reply-To: <901.982219274@whimsy.udel.edu> from Harlan Stenn at "Feb 15, 1 01:41:14 am"
To: Harlan Stenn <stenn@whimsy.udel.edu>
Date: Fri, 16 Feb 2001 20:01:46 +1100
X-Mailer: ELM [version 2.4ME+ PL37 (25)]
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In some email I received from Harlan Stenn, sie wrote:

> Darren,
>
> I'm looking for an async resolver library that I can use with NTP.
>
> I noticed your code in the contrib/ subdir of later bind8 distribution
> and I noticed the Copyright notice in arlib.c:
>
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>
> so I thought I'd ask your permission to distribute your files if I can
> figure out how to make it all work with ntpd.

<http://coombs.anu.edu.au/~avalon/arlib.tar.gz>

a few bug fixes (inc. buffer overflow :) and stuff in there.

But otherwise, go for it.

Darren

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<one line to give the program's name and a brief idea of what it does.>

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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2.1, February 1999

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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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"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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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

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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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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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October 1996

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October 2000

1.237 ooid 0.99

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1.239 openldap 2.4.23 :32.el6_4.1

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1.242 openssl 0.9.8c

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1.245 pam 1.1.1 :10.el6_2.1

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1.246 pango 1.28.1 :7.el6_3

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1.248 pciutils 3.1.4 :11.el6

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1.249 pcre 7.8 :4.el6

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Written by: Philip Hazel
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1.250 perl 5.10.1 :130.el6_4

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```

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<signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.252 php 5.3.3 :23.el6_4

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Written by: Philip Hazel
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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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University of Cambridge Computing Service,
Cambridge, England.

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1.256 piranha 0.8.6 :2.el6_4.1

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```

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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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards

changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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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1.260 POI 3.2

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1.261 polycoreutils 2.0.83 :19.24.e16

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```
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1.265 procmail 3.22 :25.1.e16

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1.268 psqldb 7.03.0100

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1.269 pth 2.0.7 :9.3.e16

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```
-----
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1.271 Python 2.7.3

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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1.272 python 2.6.6 :29.el6_2.2

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes

2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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2.6.5	2.6.4	2010	PSF	yes

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

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1.274 python-pycurl 7.19.0 :8.el6

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```
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Version 1.1

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EJS - Embedded JavaScript

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Requests includes some vendorized python libraries to ease installation.

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1.283 rpcbind 0.2.0 :9.e16

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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 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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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.

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c) 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.

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END OF TERMS AND CONDITIONS

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Ty Coon, President of Vice

That's all there is to it!

1.285 rsyslog 5.8.10 :2.e16

1.285.1 Available under license :

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Version 3, 29 June 2007

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a

derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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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.)

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.

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The test programs in this directory tree are for demonstrating and testing the functionality of the SDL library, and are placed in the public domain.

October 28, 1997

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Sam Lantinga (slouken@libsdl.org)

1.290 sed 4.2.1 :10.e!6

1.290.1 Available under license :

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Version 3, 29 June 2007

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1.293 shadow-utils 4.1.4.2 :13.el6

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1.294 shadow-utils_GPLv2 4.1.4.2 :13.el6

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Charset: noconv

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jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOOrZcmu7IADO8hlU//  
v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfEbLDQWhi1JiXC  
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**:3.20090921gitdf3cb4.2.e16**

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# Please send patches to <config-patches@gnu.org>. Submit a context  
# diff and a properly formatted ChangeLog entry.

#

# Configuration subroutine to validate and canonicalize a configuration type.

```

Supply the specified configuration type as an argument.
If it is invalid, we print an error message on stderr and exit with code 1.
Otherwise, we print the canonical config type on stdout and succeed.

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*
* @(#) $Header: /tcpdump/master/tcpdump/fddi.h,v 1.11 2002-12-11 07:13:51 guy Exp $ (LBL)
*/

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#
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* @(#)ip.h 8.1 (Berkeley) 6/10/93
*/

```

# 1.316 tftp 0.49 :7.e16

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## 1.317 Trio 0.0

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README -- trio

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Trio is intended to be an integral part of another application, so we have not done anything to create a proper installation.

Compile with 'make' (edit the Makefile if you want a release build)

Test the package with 'make test'

Install by copying trio.h, triop.h, and libtrio.a (and man/man?/\* if you want documentation) to the appropriate directories.

Catch some usage examples in example.c

Send feedback and patches to the mailing list, subscription and other information is found here:

<http://lists.sourceforge.net/lists/listinfo/ctrio-talk>

Enjoy!

Trio web page

<http://daniel.haxx.se/trio/>

## 1.318 tzdata 2012c :1.el6

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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## 1.320 unixODBC 2.2.14 :12.el6\_3

### 1.320.1 Available under license :

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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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(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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If distribution of object code is made by offering access to copy

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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.

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```

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```

```
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## Visual Studio - Vim Integration

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VisVim is a Visual Studio Add-In that allows Vim to be integrated as the default text editor. It will be used instead of the Visual Studio built-in editor when you double-click on a file or press F4 after compiling (it will go to the proper line in the Vim buffer). The file can be loaded exclusively by Vim or additionally to the builtin Visual Studio editor (this option can be set in the VisVim configuration dialog inside Visual Studio). Vim does not replace the Visual Studio editor, it still runs in its own window.

VisVim is based upon VisEmacs by Christopher Payne  
(Copyright (C) Christopher Payne 1997).

Author: Heiko Erhardt <Heiko.Erhardt@munich.netsurf.de>  
Based upon: VisEmacs by Christopher Payne <payneca@sagian.com>  
Version: 1.0  
Created: 23 Oct 1997  
Date: 23 Oct 1997

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### Requirements

-----

VisVim works with the \*OLE-enabled\* version of Vim version 5.0 and higher only!!! You must download the extra archive containing the OLE-enabled executable from your Vim download site. When building your own Vim executable, use the if\_ole\_vc.mak makefile (Vim 5.1 and higher). VisVim needs DevStudio 5.0 or higher. It does not work with DevStudio 4.2.

### Installation

-----



- 1) Close running instances of DevStudio.
- 2) Copy VisVim.dll into a convenient directory like \vim, \vim\lib, or \vim\addin
- 3) Register the DLL using regsvr32.exe ... (Skip this on Windows 95/98)

Example:

```
> cd \vim\addin
```

```
> regsvr32 VisVim.dll
```

On NT, you should do this from an administrator account.

Before installing a new version of VisVim you should unregister the old one using

```
> regsvr32 -unregister VisVim.dll
```

The batch files register.bat and unregister.bat can do that for you.

- 3a) If you didn't do this yet: Register the OLE gvim:

```
> gvim -register
```

- 4) Start Visual Studio and go to:

Tools

Customize...

Add-Ins and Macro Files

- 5) Click on Browse, and point Visual Studio to your VisVim.dll file.

- 6) Click the checkbox to indicate that you want to use the Add-In, and Close the Customize dialog box.

- 7) You should notice the VisVim Toolbar with the Vim Icon.

Click the first item of the toolbar to get to the options dialog.

## Compiling VisVim

-----

Two Options:

- 1) Load the VisVim.mak file as a Workspace in Visual Studio and compile

- 2) Use the MSVC command line compiler:

```
vcvars32
```

```
nmake -f VisVim.mak
```

## Using VisVim

-----

The VisVim DLL exposes several functions to the user. These functions are accessible using the toolbar or by assigning hotkeys to them (see below).

The following functions are visible on the toolbar (from left to right):

1. VisVim settings dialog

The settings you adjust here will be saved in the registry and will be reloaded on program startup.

2. Enable Vim

Enables Vim as Visual Studio editor. Control will be switched to Vim when:

- Clicking a file in the file view
- Clicking a compiler error message line
- Using the 'File-Open' Dialog
- Showing the current source line when encountering a debugger breakpoint.
- Using File-New

3. Disable Vim

The internal Visual Studio editor will be used to edit files.

4. Toggle enable state

Toggles the enable state of VisVim. Use this function if you want to have one button only to activate/deactivate Vim.

5. Load current file in Vim

Loads the file shown in the internal editor into Vim. Use this function if you want the internal editor to stay active and just edit one file in Vim.

This command works always whether Vim is enabled as default editor or not.

You cannot use DevStudio's debugger commands from inside Vim, so you should disable Vim before running the debugger.

You can customize the Vim toolbar itself or add the Vim buttons to other toolbars.

To have fast access to the VisVim options dialog I suggest to create keyboard shortcuts:

1) Choose

Tools

Customize...

Keyboard

2) Choose Category: AddIns and Commands: VisVim.

3) Choose 'Main' as editor, enter each hotkey and press the Assign button.

I suggest:

VisVimDialogCmd Alt+Shift+V

VisVimEnableCmd Alt+Shift+E

VisVimDisableCmd Alt+Shift+D

VisVimToggleCmd Alt+Shift+T

VisVimLoadCmd Alt+Shift+G

#### 4) Close the dialog

Now a typical debugging example:

Using "Alt+Shift+d" you turn off Vim before starting the debugger. After hitting the breakpoint you single step through your application using the internal source code editor and examine variables. When you stumble across the line with the null pointer assignment, just press "Alt+Shift+g", and correct the error in Vim. Save the file, press Alt+Tab to return to DevStudio and press F7 to compile. That's it.

#### Troubleshooting

-----

1. When opening a file in DevStudio the file is opened in the DevStudio editor and immediately vanishes. No Vim shows up.  
Cause: Probably you don't have the OLE-enabled Vim or you didn't register it.  
Explanation: VisVim is notified by DevStudio if an 'open document' event occurs. It then closes the document in the internal editor and tries to start Vim. If Vim isn't properly OLE-registered, this won't work.  
Workaround: Download and install the OLE-enabled version of Vim and execute "gvim -register".
2. Sometimes when clicking on a file, the file won't be opened by Vim but instead the Visual Studio editor comes up.  
Cause: The file was already loaded by the DevStudio editor.  
Explanation: VisVim works by hooks exposed by Visual Studio. Most of the functionality works from the OpenDocument hook. If a document is already loaded in the Visual Studio editor, no 'open document' event will be generated when clicking the file in the file list.  
Workaround: Close the document in Visual Studio first.
3. I can't get VisVim to work. Either the Vim toolbar does not appear at all or weird crashes happen.  
Cause: The Visual Studio installation is messed up.  
Explanation: I can't give you one. Ask M\$.  
Workaround: Reinstall DevStudio (I know this is brute, but in some cases it helped). There was one case where the service pack 1 had to be installed, too.
4. If an instance of Vim is already running, VisVim will use that instance and not start a new one.  
Cause: This is proper OLE behaviour

Explanation: Some call it a bug, some a feature. That's just the way OLE works.

5. When being in insert mode in Vim and selecting a file in Visual Studio, the Vim command `:e ...` is inserted as text instead of being executed.

Cause: You probably know...

Explanation: The Vim OLE automation interface interprets the VisVim commands as if they were typed in by the user.

So if you're in insert mode Vim considers it to be text.

I decided against sending an ESC before the command because it may cause a beep or at least a screen flash when `noeb` is set.

Workaround: Get used to press ESC before switching to DevStudio.

6. I'm tired of VisVim but I can't get rid of it. I can't delete it in Tools-Customize-Add-Ins.

Cause: You can't delete an item you once added to the add-ins list box.

Explanation: MS just didn't put a 'delete' button in the dialog box.

Unfortunately there is no DEL key accelerator as well...

Workaround: You can't kill it, but you can knock it out:

1. Uncheck the check box in front of 'Vim Developer Studio Add-in'.
2. Close Visual Studio.
3. Delete `VisVim.dll` or move it somewhere it can't be found.
4. Run Visual Studio.
5. Tools -> Cursomize ->Add-ins and Macro-Files.
6. A message appears:

```
"../VisVim.dll" "This add-in no longer exists. It will no longer be displayed."
```

That's it!

#### Change history

-----

1.0a to 1.0

-----

- All settings in the VisVim dialog are remembered between DevStudio sessions by keeping them in the registry (`HKEY_CURRENT_USER\Software\Vim\VisVim`).
- Added an option to do a `:cd` before opening the file (having a file opened by clicking it but finding out to be still in `C:\Windows\system` when trying to open another file by `:"e"` can be annoying). Change directory can be done to the source file's directory or it's parent directory.
- Added some explanations to the error message for the `CO_E_CLASSSTRING` error ("Use OLE Vim and make sure to register...").

## 1.0 to 1.1a

-----

- The VisVim toolbar button now shows the new Vim icon instead of the old one.
- Made some changes to the documentation, added the troubleshooting chapter and ToDo list.
- File-New-\* now invokes Vim instead of the builtin editor if enabled.

## 1.1 to 1.1b

-----

- Extended the VisVim toolbar to have multiple buttons instead of one.
- Moved the enable/disable commands from the settings dialog to the toolbar.
- Added the toggle enable/disable command
- Added the 'load current file' command.

## 1.1b to 1.2

-----

No new features, just some fine tuning:

- Changed the GUID of the VisVim OLE interface to avoid conflicts with a version of VisEmacs or VisVile on the same computer (Guy Gascoigne)
- Fixed a bug caused by a bug in the Developer Studio add-in code generator (Clark Morgan)
- Fixed a memory leak (Clark Morgan)
- Added an option in the VisVim dialog to prepend ESC before the first command that is sent to Vim. This will avoid inserting the command as text when Vim is still in insert mode.
- An :update command is sent to Vim before any other command to update the current file if it is modified, or else the following :cd or :e command will fail.

## 1.2 to 1.3a

-----

- Fixed a bug caused by a missing EnableModeless() function call in VimLoad(). This seems to reduce VisVim crashing DevStudio on some systems (it occasionally still seems to happen, but it's more stable now). (Vince Negri)
- Added support for the new CTRL-\ CTRL-N command of Vim 5.4a. This prevents Vim from beeping when a VisVim command is executed an Vim is not in insert mode.

## ToDo List

-----

P1 is highest priority, P10 lowest

P9 Switching to DevStudio using ALT-TAB may get annoying. Would be nice to have the option to map `ActivateApplication("Visual Studio")` in Vim. Vim DLLs would solve that problem.

P8 Execute `:tag` command in Vim for word under cursor in DevStudio

P7 Controlling the Visual Studio Debugger from inside Vim  
See message above. Also a 'Debug' highlight group and a command to highlight a certain line would be necessary.

P6 Provide an option to open the current file in VisVim in Visual Studio editor  
Same as above message. A kind of two way OLE automation would have to be established between VisVim and Vim. Also a 'Debug' highlight group and a command to highlight a certain line would be necessary.

#### Known Problems

-----

- Occasional memory corruptions in DevStudio may appear on some systems. Reinstalling DevStudio helped in some cases.  
The cause of these crashes is unclear; there is no way to debug this.  
Recompiling VisVim with DevStudio SP3 didn't help.  
I assume it's a problem deep inside the DevStudio add-in OLE interfaces.  
This will hopefully be fixed with DevStudio 6.

Have fun!

Heiko Erhardt  
Heiko.Erhardt@munich.netsurf.de

\*uganda.txt\* For Vim version 7.2. Last change: 2008 Jun 21

VIM REFERENCE MANUAL by Bram Moolenaar

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- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.



- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

---

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a

sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre is co-sponsored and inspected by World Vision, Save the Children Fund and International Child Care Fund. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself in 1996, 1998, 2000, 2001 and 2003. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:  
Kibaale Children's Centre

p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy

10238-168 Street

Surrey, B.C. V4N 1Z4

Canada

Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Venlo.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL47 PSTB 0004 5487 74

under the name "stichting ICCF Holland", Venlo

If that doesn't work:

Rabobank Venlo, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Venlo

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

stichting ICCF Holland

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

" netrw.vim: Handles file transfer and remote directory listing across

"     AUTOLOAD SECTION

" Date: Oct 23, 2008

" Version: 134

" Maintainer: Charles E Campbell, Jr <NdrOchip@ScampbellPfamily.AbizM-NOSPAM>

" GetLatestVimScripts: 1075 1 :AutoInstall: netrw.vim

" Copyright: Copyright (C) 1999-2008 Charles E. Campbell, Jr. {{{1

"     Permission is hereby granted to use and distribute this code,  
"     with or without modifications, provided that this copyright  
"     notice is copied with it. Like anything else that's free,  
"     netrw.vim, netrwPlugin.vim, and netrwSettings.vim are provided  
"     \*as is\* and come with no warranty of any kind, either  
"     expressed or implied. By using this plugin, you agree that  
"     in no event will the copyright holder be liable for any damages  
"     resulting from the use of this software.

```

"redraw!|call DechoSep()|call inputsave()|call input("Press <cr> to continue")|call inputrestore()
"
" But be doers of the Word, and not only hearers, deluding your own selves {{{1
" (James 1:22 RSV)
" -----
" Load Once: {{{1
if &cp || exists("g:loaded_netrw")
 finish
endif
let g:loaded_netrw = "v134"
if v:version < 702
 echohl WarningMsg
 echo "***warning*** this version of netrw needs vim 7.2"
 echohl Normal
 finish
endif
if !exists("s:NOTE")
 let s:NOTE = 0
 let s:WARNING = 1
 let s:ERROR = 2
endif

" sanity checks
if v:version < 700
 call netrw#ErrorMsg(s:WARNING,"you need vim version 7.0 or later for version ".g:loaded_netrw." of netrw",1)
 finish
endif

let s:keepcpo= &cpo
setlocal cpo&vim
"DechoTabOn
"call Decho("doing autoload/netrw.vim version ".g:loaded_netrw)

" =====
" Netrw Variables: {{{1
" =====

" -----
" Netrw Constants: {{{2
if !exists("g:netrw_dirhist_cnt")
 let g:netrw_dirhist_cnt= 0
endif
if !exists("s:LONGLIST")
 let s:THINLIST = 0
 let s:LONGLIST = 1
 let s:WIDELIST = 2
 let s:TREELIST = 3
 let s:MAXLIST = 4

```

```

endif

" -----
" Default values for netrw's global protocol variables {{{2
if !exists("g:netrw_dav_cmd")
if executable("cadaver")
let g:netrw_dav_cmd = "cadaver"
elseif executable("curl")
let g:netrw_dav_cmd = "curl"
else
let g:netrw_dav_cmd = ""
endif
endif
if !exists("g:netrw_fetch_cmd")
if executable("fetch")
let g:netrw_fetch_cmd = "fetch -o"
else
let g:netrw_fetch_cmd = ""
endif
endif
if !exists("g:netrw_ftp_cmd")
let g:netrw_ftp_cmd = "ftp"
endif
if !exists("g:netrw_http_cmd")
if executable("elinks")
let g:netrw_http_cmd = "elinks"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-dump >"
endif
elseif executable("links")
let g:netrw_http_cmd = "links"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-dump >"
endif
elseif executable("curl")
let g:netrw_http_cmd = "curl"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-o"
endif
elseif executable("wget")
let g:netrw_http_cmd = "wget"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-q -O"
endif
elseif executable("fetch")
let g:netrw_http_cmd = "fetch"
if !exists("g:netrw_http_xcmd")
let g:netrw_http_xcmd= "-o"

```

```

endif
else
let g:netrw_http_cmd = ""
endif
endif
if !exists("g:netrw_rcp_cmd")
let g:netrw_rcp_cmd = "rcp"
endif
if !exists("g:netrw_rsync_cmd")
let g:netrw_rsync_cmd = "rsync"
endif
if !exists("g:netrw_scp_cmd")
let g:netrw_scp_cmd = "scp -q"
endif
if !exists("g:netrw_sftp_cmd")
let g:netrw_sftp_cmd = "sftp"
endif
if !exists("g:netrw_ssh_cmd")
let g:netrw_ssh_cmd = "ssh"
endif

if (has("win32") || has("win95") || has("win64") || has("win16"))
\ && exists("g:netrw_use_nt_rcp")
\ && g:netrw_use_nt_rcp
\ && executable($SystemRoot ./system32/rcp.exe')
let s:netrw_has_nt_rcp = 1
let s:netrw_rcpmode = '-b'
else
let s:netrw_has_nt_rcp = 0
let s:netrw_rcpmode = ""
endif

" -----
" Default values for netrw's global variables {{{2
" Cygwin Detection ----- {{{3
if !exists("g:netrw_cygwin")
if has("win32") || has("win95") || has("win64") || has("win16")
if &shell =~ \%(\<bash\>|\<zsh\>)\%(\.exe)\=$'
let g:netrw_cygwin= 1
else
let g:netrw_cygwin= 0
endif
else
let g:netrw_cygwin= 0
endif
endif
" Default values - a-c ----- {{{3
if !exists("g:netrw_alto")

```

```

let g:netrw_alto= &sb
endif
if !exists("g:netrw_altv")
let g:netrw_altv= &spr
endif
if !exists("g:netrw_browse_split")
let g:netrw_browse_split= 0
endif
if !exists("g:netrw_chgwin")
let g:netrw_chgwin = -1
endif
if !exists("g:netrw_compress")
let g:netrw_compress= "gzip"
endif
if !exists("g:netrw_ctags")
let g:netrw_ctags= "ctags"
endif
if !exists("g:netrw_cursorline")
let g:netrw_cursorline= 1
let s:netrw_usercul = &cursorline
let s:netrw_usercuc = &cursorcolumn
endif
" Default values - d-g ----- {{{3
if !exists("g:netrw_dirhist_cnt")
let g:netrw_dirhist_cnt= 0
endif
if !exists("g:netrw_decompress")
let g:netrw_decompress= { ".gz" : "gunzip" , ".bz2" : "bunzip2" , ".zip" : "unzip" , ".tar" : "tar -xf" }
endif
if !exists("g:netrw_dirhistmax")
let g:netrw_dirhistmax= 10
endif
if !exists("g:netrw_fastbrowse")
let g:netrw_fastbrowse= 1
endif
if !exists("g:netrw_ftp_browse_reject")
let g:netrw_ftp_browse_reject='^total\s\+\d\+\$\|^Trying\s\+\d\+.*$\|^KERBEROS_V\d rejected\|^Security
extensions not\|No such file\|: connect to address [0-9a-fA-F:]*: No route to host$'
endif
if !exists("g:netrw_ftp_list_cmd")
if has("unix") || (exists("g:netrw_cygwin") && g:netrw_cygwin)
let g:netrw_ftp_list_cmd = "ls -lF"
let g:netrw_ftp_timelist_cmd = "ls -tlF"
let g:netrw_ftp_sizelist_cmd = "ls -slF"
else
let g:netrw_ftp_list_cmd = "dir"
let g:netrw_ftp_timelist_cmd = "dir"
let g:netrw_ftp_sizelist_cmd = "dir"

```



```

endif
endif
if !exists("g:netrw_ftpmode")
let g:netrw_ftpmode= "binary"
endif
" Default values - h-lh ----- {{{3
if !exists("g:netrw_hide")
let g:netrw_hide= 1
endif
if !exists("g:netrw_ignorenetr")
if &shell =~ '\c\<|\%(cmd\|4nt\)\.exe$'
let g:netrw_ignorenetr= 1
else
let g:netrw_ignorenetr= 0
endif
endif
if !exists("g:netrw_keepdir")
let g:netrw_keepdir= 1
endif
if !exists("g:netrw_list_cmd")
if g:netrw_scp_cmd =~ '^pscp' && executable("pscp")
" provide a 'pscp' listing command
if (has("win32") || has("win95") || has("win64") || has("win16")) && filereadable("c:\\private.ppk")
let g:netrw_scp_cmd = "pscp -i C:\\private.ppk"
endif
let g:netrw_list_cmd= g:netrw_scp_cmd." -ls USEPORT HOSTNAME:"
elseif executable(g:netrw_ssh_cmd)
" provide a default listing command
let g:netrw_list_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME ls -FLa"
else
" call Decho(g:netrw_ssh_cmd." is not executable")
let g:netrw_list_cmd= ""
endif
endif
if !exists("g:netrw_list_hide")
let g:netrw_list_hide= ""
endif
" Default values - lh-lz ----- {{{3
if !exists("g:netrw_localcopycmd")
if has("win32") || has("win95") || has("win64") || has("win16")
if g:netrw_cygwin
let g:netrw_localcopycmd= "cp"
else
let g:netrw_localcopycmd= "copy"
endif
elseif has("unix") || has("macunix")
let g:netrw_localcopycmd= "cp"
else

```

```

let g:netrw_localcopycmd= ""
endif
endif
if !exists("g:netrw_local_mkdir")
let g:netrw_local_mkdir= "mkdir"
endif
if !exists("g:netrw_localmovecmd")
if has("win32") || has("win95") || has("win64") || has("win16")
if g:netrw_cygwin
let g:netrw_localmovecmd= "mv"
else
let g:netrw_localmovecmd= "move"
endif
elseif has("unix") || has("macunix")
let g:netrw_localmovecmd= "mv"
else
let g:netrw_localmovecmd= ""
endif
endif
if !exists("g:netrw_local_rmdir")
let g:netrw_local_rmdir= "rmdir"
endif
if !exists("g:netrw_liststyle")
let g:netrw_liststyle= s:THINLIST
endif
if g:netrw_liststyle < 0 || g:netrw_liststyle >= s:MAXLIST
" sanity check
let g:netrw_liststyle= s:THINLIST
endif
if g:netrw_liststyle == s:LONGLIST && g:netrw_scp_cmd !~ '^pscp'
let g:netrw_list_cmd= g:netrw_list_cmd." -l"
endif
" Default values - m-r ----- {{{3
if !exists("g:netrw_markfileesc")
let g:netrw_markfileesc= '*/[\~'
endif
if !exists("g:netrw_maxfilenamelen")
let g:netrw_maxfilenamelen= 32
endif
if !exists("g:netrw_menu")
let g:netrw_menu= 1
endif
if !exists("g:netrw_mkdir_cmd")
let g:netrw_mkdir_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME mkdir"
endif
if !exists("g:netrw_mousemaps")
if exists("&mouse") && &mouse =~ '[anh]'
let g:netrw_mousemaps= 1

```

```

else
 let g:netrw_mousemaps= 0
endif
endif
if !exists("g:netrw_retmap")
let g:netrw_retmap= 0
endif
if !exists("g:netrw_preview")
let g:netrw_preview= 0
endif
if !exists("g:netrw_scpport")
let g:netrw_scpport= "-P"
endif
if !exists("g:netrw_sshport")
let g:netrw_sshport= "-p"
endif
if !exists("g:netrw_rename_cmd")
let g:netrw_rename_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME mv"
endif
if !exists("g:netrw_rm_cmd")
let g:netrw_rm_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rm"
endif
if !exists("g:netrw_rmdir_cmd")
let g:netrw_rmdir_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rmdir"
endif
if !exists("g:netrw_rmf_cmd")
let g:netrw_rmf_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rm -f"
endif
" Default values - s ----- {{{3
" set up shell quoting character
if exists("g:netrw_silent") && g:netrw_silent != 0
let s:netrw_silentxfer= "silent "
else
let s:netrw_silentxfer= ""
endif
if !exists("g:netrw_sort_by")
" alternatives: date size
let g:netrw_sort_by= "name"
endif
if !exists("g:netrw_sort_options")
let g:netrw_sort_options= ""
endif
if !exists("g:netrw_sort_direction")
" alternative: reverse (z y x ...)
let g:netrw_sort_direction= "normal"
endif
if !exists("g:netrw_sort_sequence")
let g:netrw_sort_sequence= '[V]$,\.h$,\.c$,\.cpp$,*,\.o$,\.obj$,\.info$,\.swp$,\.bak$,\~$'

```

```

endif
if !exists("g:netrw_special_syntax")
let g:netrw_special_syntax= 0
endif
if !exists("g:netrw_ssh_browse_reject")
let g:netrw_ssh_browse_reject='^total\s\+\d\+$'
endif
if !has("patch192")
if !exists("g:netrw_use_noswf")
let g:netrw_use_noswf= 1
endif
else
let g:netrw_use_noswf= 0
endif
" Default values - t-w ----- {{{3
if !exists("g:netrw_timefmt")
let g:netrw_timefmt= "%c"
endif
if !exists("g:netrw_xstrlen")
let g:netrw_xstrlen= 1
endif
if !exists("g:NetrwTopLvlMenu")
let g:NetrwTopLvlMenu= "Netrw."
endif
if !exists("g:netrw_use_errorwindow")
let g:netrw_use_errorwindow= 1
endif
if !exists("g:netrw_win95ftp")
let g:netrw_win95ftp= 1
endif
if !exists("g:netrw_winsize")
let g:netrw_winsize= ""
endif
" -----
" Default values for netrw's script variables: {{{2
if !exists("g:netrw_fname_escape")
let g:netrw_fname_escape= '?&%'
endif
if !exists("g:netrw_glob_escape")
let g:netrw_glob_escape= '[]*?{~$'
endif
if !exists("g:netrw_tmpfile_escape")
let g:netrw_tmpfile_escape= '&';
endif
let s:netrw_map_escape = "<\n\r\\<C-V>\"

```

" BufEnter event ignored by decho when following variable is true

" Has a side effect that doau BufReadPost doesn't work, so

```

" files read by network transfer aren't appropriately highlighted.
"let g:decho_bufenter = 1 "Decho

" =====
" Netrw Utility Functions: {{{1
" =====

" -----
" s:NetrwOptionSave: save options and set to "standard" form {{{2
" 06/08/07 : removed call to NetrwSafeOptions(), either placed
" immediately after NetrwOptionSave() calls in NetRead
" and NetWrite, or after the s:NetrwEnew() call in
" NetrwBrowse.
" vt: normally its "w:" or "s:" (a variable type)
fun! s:NetrwOptionSave(vt)
" call Dfunc("s:NetrwOptionSave(vt<"a:vt.">) win#".winnr()." buf#".bufnr("%")."<".bufname(bufnr("%")).">")

" call Decho(a:vt."netrw_optionsave".(exists("{a:vt}netrw_optionsave")? ("=".{a:vt}netrw_optionsave) : " doesn't
exist"))
if !exists("{a:vt}netrw_optionsave")
 let {a:vt}netrw_optionsave= 1
else
" call Dret("s:NetrwOptionSave : options already saved")
 return
endif
" call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))

" Save current settings and current directory
let s:yykeep = @@
if exists("&l:acd")
 let {a:vt}netrw_acdkeep = &l:acd
endif
let {a:vt}netrw_aikeep = &l:ai
let {a:vt}netrw_awkeep = &l:aw
let {a:vt}netrw_cikeep = &l:ci
let {a:vt}netrw_cinkeep = &l:cin
let {a:vt}netrw_cinokeep = &l:cino
let {a:vt}netrw_comkeep = &l:com
let {a:vt}netrw_cpokeep = &l:cpo
if g:netrw_keepdir
 let {a:vt}netrw_dirkeep = getcwd()
endif
let {a:vt}netrw_fokeep = &l:fo " formatoptions
let {a:vt}netrw_gdkeep = &l:gd " gdefault
let {a:vt}netrw_hidkeep = &l:hidden
let {a:vt}netrw_magickeep = &l:magic
let {a:vt}netrw_repkeep = &l:report
let {a:vt}netrw_spellkeep = &l:spell

```

```

let {a:vt}netrw_twkeep = &l:tw " textwidth
let {a:vt}netrw_wigkeep = &l:wig " wildignore
if has("win32") && !has("win95")
 let {a:vt}netrw_swfkeep = &l:swf " swapfile
endif
if &go =~ 'a' | silent! let {a:vt}netrw_regstar = @* | endif
silent! let {a:vt}netrw_regslash= @/

" call Dret("s:NetrwOptionSave : win#".winnr()." buf#".bufnr("%"))
endfun

" -----
" s:NetrwOptionRestore: restore options {{{2
fun! s:NetrwOptionRestore(vt)
" call Dfunc("s:NetrwOptionRestore(vt<".a:vt."> win#".winnr()." buf#".bufnr("%"))
if !exists("{a:vt}netrw_optionsave")
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwOptionRestore : ".a:vt."netrw_optionsave doesn't exist")
return
endif
unlet {a:vt}netrw_optionsave

if exists("&acd")
if exists("{a:vt}netrw_acdkeep")
" call Decho("g:netrw_keepdir="g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
let curdir = getcwd()
let &l:acd = {a:vt}netrw_acdkeep
unlet {a:vt}netrw_acdkeep
if &l:acd
" call Decho("exe keepjumps lcd '.fnameescape(curdir)) " NOTE: was g:netrw_fname_escape for some reason
try
if !exists("&l:acd") && !&l:acd
exe 'keepjumps lcd '.fnameescape(curdir)
endif
catch /^Vim\%((\a+)\)=:E472/
call netrw#ErrorMsg(s:ERROR,"unable to change directory to <".curdir."> (permissions?)",61)
endtry
endif
endif
endif

if exists("{a:vt}netrw_aikeep") |let &l:ai = {a:vt}netrw_aikeep |unlet {a:vt}netrw_aikeep |endif
if exists("{a:vt}netrw_awkeep") |let &l:aw = {a:vt}netrw_awkeep |unlet {a:vt}netrw_awkeep |endif
if exists("{a:vt}netrw_cikeep") |let &l:ci = {a:vt}netrw_cikeep |unlet {a:vt}netrw_cikeep |endif
if exists("{a:vt}netrw_cinkeep") |let &l:cin = {a:vt}netrw_cinkeep |unlet {a:vt}netrw_cinkeep |endif
if exists("{a:vt}netrw_cinokeep") |let &l:cino = {a:vt}netrw_cinokeep |unlet {a:vt}netrw_cinokeep |endif
if exists("{a:vt}netrw_comkeep") |let &l:com = {a:vt}netrw_comkeep |unlet {a:vt}netrw_comkeep |endif
if exists("{a:vt}netrw_cpokeep") |let &l:cpo = {a:vt}netrw_cpokeep |unlet {a:vt}netrw_cpokeep |endif
if exists("{a:vt}netrw_dirkeep") && isdirectory({a:vt}netrw_dirkeep) && g:netrw_keepdir

```

```

let dirkeep = substitute({a:vt}netrw_dirkeep, '\\', '/', 'g')
if exists("{a:vt}netrw_dirkeep") |exe "keepjumps lcd ".fnameescape(dirkeep)|unlet {a:vt}netrw_dirkeep |endif
endif
if exists("{a:vt}netrw_fokeep") |let &l:fo = {a:vt}netrw_fokeep |unlet {a:vt}netrw_fokeep |endif
if exists("{a:vt}netrw_gdkeep") |let &l:gd = {a:vt}netrw_gdkeep |unlet {a:vt}netrw_gdkeep |endif
if exists("{a:vt}netrw_hidkeep") |let &l:hidden = {a:vt}netrw_hidkeep |unlet {a:vt}netrw_hidkeep |endif
if exists("{a:vt}netrw_magic") |let &l:magic = {a:vt}netrw_magic |unlet {a:vt}netrw_magic |endif
if exists("{a:vt}netrw_repkeep") |let &l:report = {a:vt}netrw_repkeep |unlet {a:vt}netrw_repkeep |endif
if exists("{a:vt}netrw_spellkeep")|let &l:spell = {a:vt}netrw_spellkeep |unlet {a:vt}netrw_spellkeep|endif
if exists("{a:vt}netrw_twkeep") |let &l:tw = {a:vt}netrw_twkeep |unlet {a:vt}netrw_twkeep |endif
if exists("{a:vt}netrw_wigkeep") |let &l:wig = {a:vt}netrw_wigkeep |unlet {a:vt}netrw_wigkeep |endif
if exists("s:yykeep") |let @@ = s:yykeep |unlet s:yykeep |endif
if exists("{a:vt}netrw_swfkeep")
if &directory == ""
" user hasn't specified a swapfile directory;
" netrw will temporarily set the swapfile directory
" to the current directory as returned by getcwd().
let &l:directory = getcwd()
silent! let &l:swf = {a:vt}netrw_swfkeep
setlocal directory=
unlet {a:vt}netrw_swfkeep
elseif &l:swf != {a:vt}netrw_swfkeep
" following line causes a Press ENTER in windows -- can't seem to work around it!!!
silent! let &l:swf= {a:vt}netrw_swfkeep
unlet {a:vt}netrw_swfkeep
endif
endif
if exists("{a:vt}netrw_regstar")|silent! let @*= {a:vt}netrw_regstar |unlet {a:vt}netrw_regstar |endif
if exists("{a:vt}netrw_regslash")|silent! let @/= {a:vt}netrw_regslash|unlet {a:vt}netrw_regslash|endif

" call Decho("g:netrw_keepdir="g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
" call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwOptionRestore : win#".winnr()." buf#".bufnr("%"))
endfun

" -----
" s:NetrwSafeOptions: sets options to help netrw do its job {{{2
fun! s:NetrwSafeOptions()
" call Dfunc("s:NetrwSafeOptions() win#".winnr()." buf#".bufnr("%")."<".bufname(bufnr("%")).">")
" call Decho("window's ft=".&ft)
setlocal cino=
setlocal com=
setlocal cpo==aA
if exists("&acd") | setlocal noacd | endif
setlocal nocin noai noci magic nospell nohid wig= noaw
setlocal fo=nroql2
setlocal tw=0

```

```

setlocal report=10000
setlocal isk+=@ isk+=* isk+=/
if g:netrw_use_noswf && has("win32") && !has("win95")
 setlocal noswf
endif
" call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))
" call Dret("s:NetrwSafeOptions")
endfun

" -----
" netrw#NetrwClean: remove netrw {{{2
" supports :NetrwClean -- remove netrw from first directory on runtimepath
" :NetrwClean! -- remove netrw from all directories on runtimepath
fun! netrw#NetrwClean(sys)
" call Dfunc("netrw#NetrwClean(sys=".a:sys.")")

if a:sys
 let choice= confirm("Remove personal and system copies of netrw?",&Yes\n&No")
else
 let choice= confirm("Remove personal copy of netrw?",&Yes\n&No")
endif
" call Decho("choice=".&choice)
let diddel= 0
let diddir= ""

if choice == 1
 for dir in split(&rtp,')
 if filereadable(dir."/plugin/netrwPlugin.vim")
" call Decho("removing netrw-related files from ".&dir)
 if s:NetrwDelete(dir."/plugin/netrwPlugin.vim") |call netrw#ErrorMsg(1,"unable to remove
".&dir."/plugin/netrwPlugin.vim",55) |endif
 if s:NetrwDelete(dir."/autoload/netrwFileHandlers.vim")|call netrw#ErrorMsg(1,"unable to remove
".&dir."/autoload/netrwFileHandlers.vim",55)|endif
 if s:NetrwDelete(dir."/autoload/netrwSettings.vim") |call netrw#ErrorMsg(1,"unable to remove
".&dir."/autoload/netrwSettings.vim",55) |endif
 if s:NetrwDelete(dir."/autoload/netrw.vim") |call netrw#ErrorMsg(1,"unable to remove
".&dir."/autoload/netrw.vim",55) |endif
 if s:NetrwDelete(dir."/syntax/netrw.vim") |call netrw#ErrorMsg(1,"unable to remove
".&dir."/syntax/netrw.vim",55) |endif
 if s:NetrwDelete(dir."/syntax/netrwlist.vim") |call netrw#ErrorMsg(1,"unable to remove
".&dir."/syntax/netrwlist.vim",55) |endif
 let diddir= dir
 let diddel= diddel + 1
 if !a:sys|break|endif
 endif
 endfor
endif

```



```

echohl WarningMsg
if diddel == 0
 echomsg "netrw is either not installed or not removable"
elseif diddel == 1
 echomsg "removed one copy of netrw from <".diddir.">"
else
 echomsg "removed ".diddel." copies of netrw"
endif
echohl None

" call Dret("netrw#NetrwClean")
endfun

" -----
" Netrw Transfer Functions: {{{1
" =====

" -----
" netrw#NetRead: responsible for reading a file over the net {{{2
" mode: =0 read remote file and insert before current line
" =1 read remote file and insert after current line
" =2 replace with remote file
" =3 obtain file, but leave in temporary format
fun! netrw#NetRead(mode,...)
" call Dfunc("netrw#NetRead(mode=".a:mode.",...) a:0=".a:0." ".g:loaded_netrw)

" save options {{{3
call s:NetrwOptionSave("w:")
call s:NetrwSafeOptions()

" interpret mode into a readcmd {{{3
if a:mode == 0 " read remote file before current line
 let readcmd = "Or"
elseif a:mode == 1 " read file after current line
 let readcmd = "r"
elseif a:mode == 2 " replace with remote file
 let readcmd = "%r"
elseif a:mode == 3 " skip read of file (leave as temporary)
 let readcmd = "t"
else
 exe a:mode
 let readcmd = "r"
endif
let icoice = (a:0 == 0)? 0 : 1
" call Decho("readcmd<".readcmd."> icoice=".icoice)

" Get Temporary Filename {{{3
let tmpfile= s:GetTempfile("")

```

```

if tmpfile == ""
" call Dret("netrw#NetRead : unable to get a tempfile!")
return
endif

while icoice <= a:0

" attempt to repeat with previous host-file-etc
if exists("b:netrw_lastfile") && a:0 == 0
" call Decho("using b:netrw_lastfile<" . b:netrw_lastfile . ">")
let choice = b:netrw_lastfile
let icoice= icoice + 1

else
exe "let choice= a:" . icoice
" call Decho("no lastfile: choice<" . choice . ">")

if match(choice,"?") == 0
" give help
echomsg 'NetRead Usage:'
echomsg ':Nread machine:path uses rcp'
echomsg ':Nread "machine path" uses ftp with <.netrc>'
echomsg ':Nread "machine id password path" uses ftp'
echomsg ':Nread dav://machine[:port]/path uses cadaver'
echomsg ':Nread fetch://machine/path uses fetch'
echomsg ':Nread ftp://[user@]machine[:port]/path uses ftp autodetects <.netrc>'
echomsg ':Nread http://[user@]machine/path uses http wget'
echomsg ':Nread rcp://[user@]machine/path uses rcp'
echomsg ':Nread rsync://machine[:port]/path uses rsync'
echomsg ':Nread scp://[user@]machine[:#]port]/path uses scp'
echomsg ':Nread sftp://[user@]machine[:#]port]/path uses sftp'
sleep 4
break

elseif match(choice,'^') != -1
" Reconstruct Choice if choice starts with ""
" call Decho("reconstructing choice")
if match(choice,"$") != -1
" case "...
let choice=strpart(choice,1,strlen(choice)-2)
else
" case "... .. ."
let choice = strpart(choice,1,strlen(choice)-1)
let wholechoice = ""

while match(choice,"$") == -1
let wholechoice = wholechoice . " " . choice
let icoice = icoice + 1

```

```

 if icoice > a:0
 if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,"Unbalanced string in filename '". wholechoice ."',3)
 endif
 " call Dret("netrw#NetRead :2 getcwd<".getcwd().">")
 return
 endif
 let choice= a:{icoice}
endwhile
let choice= strpart(wholechoice,1,strlen(wholechoice)-1) . " " . strpart(choice,0,strlen(choice)-1)
endif
endif
endif

" call Decho("choice<" . choice . ">")
let icoice= icoice + 1

" Determine method of read (ftp, rcp, etc) {{{3
call s:NetrwMethod(choice)
if !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetRead : unsupported method")
 return
endif
let tmpfile= s:GetTempfile(b:netrw_fname) " apply correct suffix

" Check if NetrwBrowse() should be handling this request
" call Decho("checking if NetrwBrowse() should handle choice<".choice."> with
netrw_list_cmd<".g:netrw_list_cmd.">")
if choice =~ "^.*[V]$" && b:netrw_method != 5 && choice !~ '^http://'
" call Decho("yes, choice matches '^.*[V]$"")
 keepjumps call s:NetrwBrowse(0,choice)
" call Dret("netrw#NetRead :3 getcwd<".getcwd().">")
 return
endif

" =====
" Perform Protocol-Based Read {{{3
" =====
if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1
 echo "(netrw) Processing your read request..."
endif

".....
" rcp: NetRead Method #1 {{{3
if b:netrw_method == 1 " read with rcp
" call Decho("read via rcp (method #1)")
" ER: nothing done with g:netrw_uid yet?
" ER: on Win2K" rcp machine[.user]:file tmpfile

```

```

" ER: if machine contains '!' adding .user is required (use $USERNAME)
" ER: the tmpfile is full path: rcp sees C:\... as host C
if s:netrw_has_nt_rcp == 1
if exists("g:netrw_uid") && (g:netrw_uid != "")
let uid_machine = g:netrw_machine .'!'. g:netrw_uid
else
" Any way needed it machine contains a '!'
let uid_machine = g:netrw_machine .'!'. $USERNAME
endif
else
if exists("g:netrw_uid") && (g:netrw_uid != "")
let uid_machine = g:netrw_uid .'@'. g:netrw_machine
else
let uid_machine = g:netrw_machine
endif
endif
" call Decho("executing: !" .g:netrw_rcp_cmd." ".s:netrw_rcpmode."
".shellescape(uid_machine)." .b:netrw_fname,1)." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer."!" .g:netrw_rcp_cmd." ".s:netrw_rcpmode."
".shellescape(uid_machine)." .b:netrw_fname,1)." ".shellescape(tmpfile,1)
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" ftp + <.netrc>: NetRead Method #2 {{{3
elseif b:netrw_method == 2 " read with ftp + <.netrc>
" call Decho("read via ftp+.netrc (method #2)")
let netrw_fname= b:netrw_fname
call s:SaveBufVars()|new|call s:RestoreBufVars()
let filtbuf= bufnr("%")
setlocal ff=unix
put =g:netrw_ftpmode
" call Decho("filter input: ".getline(line("$")))
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline(line("$")))
endif
call setline(line("$")+1,'get "' .netrw_fname.'" '.tmpfile)
" call Decho("filter input: ".getline(line("$")))
if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("executing: %!" .g:netrw ftp_cmd." -i ".shellescape(g:netrw_machine." ".g:netrw_port,1))
exe s:netrw_silentxfer."%!" .g:netrw ftp_cmd." -i ".shellescape(g:netrw_machine." ".g:netrw_port,1)
else
" call Decho("executing: %!" .g:netrw ftp_cmd." -i ".shellescape(g:netrw_machine,1))
exe s:netrw_silentxfer."%!" .g:netrw ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '

```

```

let debugkeep = &debug
setlocal debug=msg
call netrw#ErrorMsg(s:ERROR,getline(1),4)
let &debug = debugkeep
endif
call s:SaveBufVars()
bd!
if bufname("%") == "" && getline("$") == "" && line('$') == 1
" needed when one sources a file in a nolbl setting window via ftp
q!
endif
call s:RestoreBufVars()
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" ftp + machine,id,passwd,filename: NetRead Method #3 {{{3
elseif b:netrw_method == 3 " read with ftp + machine, id, passwd, and fname
" Construct execution string (four lines) which will be passed through filter
" call Decho("read via ftp+mipf (method #3)")
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
call s:SaveBufVars()|new|call s:RestoreBufVars()
let filtbuf= bufnr("%")
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put ='open 'g:netrw_machine.' 'g:netrw_port
" call Decho("filter input: ".getline('.'))
else
put ='open 'g:netrw_machine
" call Decho("filter input: ".getline('.'))
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
put =g:netrw_uid
" call Decho("filter input: ".getline('.'))
put =\".s:netrw_passwd.\"
" call Decho("filter input: ".getline('.'))
else
put ='user \"g:netrw_uid.\" \"s:netrw_passwd.\"
" call Decho("filter input: ".getline('.'))
endif

if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
put =g:netrw_ftpmode
" call Decho("filter input: ".getline('.'))
endif
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd

```

```

" call Decho("filter input: ".getline('.'))
endif
put ='get \'".netrw_fname.'" '.tmpfile
" call Decho("filter input: ".getline('.'))

" perform ftp:
"-i : turns off interactive prompting from ftp
"-n unix : DON'T use <.netrc>, even though it exists
"-n win32: quit being obnoxious about password
norm! lGdd
" call Decho("executing: %!"g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"
" call Decho("error<".getline(1).">")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,getline(1),5)
endif
endif
call s:SaveBufVars()|bd!|call s:RestoreBufVars()
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" scp: NetRead Method #4 {{{3
elseif b:netrw_method == 4 " read with scp
" call Decho("read via scp (method #4)")
if exists("g:netrw_port") && g:netrw_port != ""
let useport= " ".g:netrw_scpport." ".g:netrw_port
else
let useport= ""
endif
" call Decho("exe s:netrw_silentxfer!"g:netrw_scp_cmd.useport."
".shellescape(g:netrw_machine." ".b:netrw_fname,1)." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer."!"g:netrw_scp_cmd.useport." ".shellescape(g:netrw_machine." ".b:netrw_fname,1)."
".shellescape(tmpfile,1)
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" http: NetRead Method #5 (wget) {{{3
elseif b:netrw_method == 5
" call Decho("read via http (method #5)")
if g:netrw_http_cmd == ""
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"neither the wget nor the fetch command is available",6)
endif
" call Dret("netrw#NetRead :4 getcwd<".getcwd().">")

```

```

return
endif

if match(b:netrw_fname,"#") == -1 || exists("g:netrw_http_xcmd")
" using g:netrw_http_cmd (usually elinks, links, curl, wget, or fetch)
" call Decho('using '.g:netrw_http_cmd.' (# not in b:netrw_fname<'.b:netrw_fname.">)")
if exists("g:netrw_http_xcmd")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd."
.shellescape("http://".g:netrw_machine.b:netrw_fname,1)." ".g:netrw_http_xcmd." ".shellescape(tmpfile,1))
exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape("http://".g:netrw_machine.b:netrw_fname,1)."
g:netrw_http_xcmd." ".shellescape(tmpfile,1)
else
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
.shellescape("http://".g:netrw_machine.b:netrw_fname,1))
exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
.shellescape("http://".g:netrw_machine.b:netrw_fname,1)
endif
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)

else
" wget/curl/fetch plus a jump to an in-page marker (ie. http://abc/def.html#aMarker)
" call Decho(("wget/curl plus jump (# in b:netrw_fname<".b:netrw_fname.">)")
let netrw_html= substitute(b:netrw_fname,"#.*$", "", "")
let netrw_tag = substitute(b:netrw_fname,"^.*#", "", "")
" call Decho("netrw_html<".netrw_html.">")
" call Decho("netrw_tag <".netrw_tag.">")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
.shellescape("http://".g:netrw_machine.netrw_html,1))
exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
.shellescape("http://".g:netrw_machine.netrw_html,1)
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
" call Decho('<\s*a\s*name=\s*"".netrw_tag.""/')
exe 'norm! 1G/<\s*a\s*name=\s*"".netrw_tag.""/'."<CR>'
endif
let b:netrw_lastfile = choice
setlocal ro

".....
" dav: NetRead Method #6 {{{3
elseif b:netrw_method == 6
" call Decho("read via cadaver (method #6)")

if !executable(g:netrw_dav_cmd)
call netrw#ErrorMsg(s:ERROR,g:netrw_dav_cmd." is not executable",73)
" call Dret("netrw#NetRead : ".g:netrw_dav_cmd." not executable")
return
endif
if g:netrw_dav_cmd =~ "curl"

```

```

" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_dav_cmd."
".shellescape("dav://".g:netrw_machine.b:netrw_fname,1)." ".shellescape(tmpfile,1))
 exe s:netrw_silentxfer."!".g:netrw_dav_cmd." ".shellescape("dav://".g:netrw_machine.b:netrw_fname,1)."
".shellescape(tmpfile,1)
else
" Construct execution string (four lines) which will be passed through filter
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
new
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
 put ='open '.g:netrw_machine.' '.g:netrw_port
else
 put ='open '.g:netrw_machine
endif
put ='user '.g:netrw_uid.' '.s:netrw_passwd
put ='get '.netrw_fname.' '.tmpfile
put ='quit'

" perform cadaver operation:
norm! 1Gdd
" call Decho("executing: %!".g:netrw_dav_cmd)
exe s:netrw_silentxfer."%!".g:netrw_dav_cmd
bd!
endif
let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
let b:netrw_lastfile = choice

".....
" rsync: NetRead Method #7 {{{3
elseif b:netrw_method == 7
" call Decho("read via rsync (method #7)")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_rsync_cmd."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1))
 exe s:netrw_silentxfer."!".g:netrw_rsync_cmd." ".shellescape(g:netrw_machine.":".b:netrw_fname,1)."
".shellescape(tmpfile,1)
 let result = s:NetrwGetFile(readcmd,tmpfile, b:netrw_method)
 let b:netrw_lastfile = choice

".....
" fetch: NetRead Method #8 {{{3
" fetch://[user@]host[:http]/path
elseif b:netrw_method == 8
" call Decho("read via fetch (method #8)")
if g:netrw_fetch_cmd == ""
 if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,"fetch command not available",7)
 endif
" call Dret("NetRead")

```



```

endif
if exists("g:netrw_option") && g:netrw_option == ":http"
 let netrw_option= "http"
else
 let netrw_option= "ftp"
endif
" call Decho("read via fetch for ".netrw_option)

if exists("g:netrw_uid") && g:netrw_uid != "" && exists("s:netrw_passwd") && s:netrw_passwd != ""
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_uid."!":s:netrw_passwd.'@'.g:netrw_machine."/".b:netrw_fname,1))
 exe s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_uid."!":s:netrw_passwd.'@'.g:netrw_machine."/".b:netrw_fname,1)
else
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_machine."/".b:netrw_fname,1))
 exe s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_machine."/".b:netrw_fname,1)
endif

let result = s:NetrwGetFile(readcmd,tmpfile, b:netrw_method)
let b:netrw_lastfile = choice
setlocal ro

".....
" sftp: NetRead Method #9 {{{3
elseif b:netrw_method == 9
" call Decho("read via sftp (method #9)")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_sftp_cmd."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".tmpfile)
 exe s:netrw_silentxfer."!".g:netrw_sftp_cmd." ".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".tmpfile
 let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
 let b:netrw_lastfile = choice

".....
" Complain {{{3
else
 call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",8)
endif
endwhile

" cleanup {{{3
if exists("b:netrw_method")
" call Decho("cleanup b:netrw_method and b:netrw_fname")
 unlet b:netrw_method
 unlet b:netrw_fname
endif
if s:FileReadable(tmpfile) && tmpfile !~ '.tar.bz2$' && tmpfile !~ '.tar.gz$' && tmpfile !~ '.zip' && tmpfile !~ '.tar'

```

```

&& readcmd != 't'
" call Decho("cleanup by deleting tmpfile<".tmpfile.">")
 call s:NetrwDelete(tmpfile)
endif
call s:NetrwOptionRestore("w:")

" call Dret("netrw#NetRead :5 getcwd<".getcwd().">")
endfun

" -----
" netrw#NetWrite: responsible for writing a file over the net {{{2
fun! netrw#NetWrite(...) range
" call Dfunc("netrw#NetWrite(a:0=".a:0.") ".g:loaded_netrw)

" option handling
let mod= 0
call s:NetrwOptionSave("w:")
call s:NetrwSafeOptions()

" Get Temporary Filename {{{3
let tmpfile= s:GetTempfile("")
if tmpfile == ""
" call Dret("netrw#NetWrite : unable to get a tempfile!")
 return
endif

if a:0 == 0
 let ichoice = 0
else
 let ichoice = 1
endif

let curbufname= expand("%")
" call Decho("curbufname<".curbufname.">")
if &binary
" For binary writes, always write entire file.
" (line numbers don't really make sense for that).
" Also supports the writing of tar and zip files.
" call Decho("(write entire file) silent exe w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile))
 silent exe "w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile)
elseif g:netrw_cygwin
" write (selected portion of) file to temporary
let cygtmpfile= substitute(tmpfile,'/cygdrive/(\.\/)',\1:'.')
" call Decho("(write selected portion) silent exe ".a:firstline.", " . a:lastline . "w! ".fnameescape(v:cmdarg)."
".fnameescape(cygtmpfile))
 silent exe a:firstline.", " . a:lastline . "w! ".fnameescape(v:cmdarg)." ".fnameescape(cygtmpfile)
else
" write (selected portion of) file to temporary

```

```

" call Decho("(write selected portion) silent exe ".a:firstline.", " . a:lastline . "w! ".fnameescape(v:cmdarg)."
".fnameescape(tmpfile))
silent exe a:firstline.", " . a:lastline . "w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile)
endif

if curbufname == ""
" if the file is [No Name], and one attempts to Nwrite it, the buffer takes
" on the temporary file's name. Deletion of the temporary file during
" cleanup then causes an error message.
Ofile!
endif

" While choice loop: {{{3
while icoice <= a:0

" Process arguments: {{{4
" attempt to repeat with previous host-file-etc
if exists("b:netrw_lastfile") && a:0 == 0
" call Decho("using b:netrw_lastfile<" . b:netrw_lastfile . ">")
let choice = b:netrw_lastfile
let icoice= icoice + 1
else
exe "let choice= a:" . icoice

" Reconstruct Choice if choice starts with ""
if match(choice, "?") == 0
echomsg 'NetWrite Usage:'
echomsg ':Nwrite machine:path uses rcp'
echomsg ':Nwrite "machine path" uses ftp with <.netrc>'
echomsg ':Nwrite "machine id password path" uses ftp'
echomsg ':Nwrite dav://[user@]machine/path uses cadaver'
echomsg ':Nwrite fetch://[user@]machine/path uses fetch'
echomsg ':Nwrite ftp://machine[#port]/path uses ftp (autodetects <.netrc>)'
echomsg ':Nwrite rcp://machine/path uses rcp'
echomsg ':Nwrite rsync://[user@]machine/path uses rsync'
echomsg ':Nwrite scp://[user@]machine[[:#]port]/path uses scp'
echomsg ':Nwrite sftp://[user@]machine/path uses sftp'
sleep 4
break

elseif match(choice, "^\\") != -1
if match(choice, "\\$") != -1
" case "...
let choice=strpart(choice,1,strlen(choice)-2)
else
" case "..."
let choice = strpart(choice,1,strlen(choice)-1)
let wholechoice = ""

```

```

while match(choice,"\\$")== -1
 let wholechoice= wholechoice . " " . choice
 let icoice = icoice + 1
 if choice > a:0
 if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"Unbalanced string in filename ". wholechoice . """,13)
endif
" call Dret("netrw#NetWrite")
 return
 endif
 let choice= a:{icoice}
endwhile
let choice= strpart(wholechoice,1,strlen(wholechoice)-1) . " " . strpart(choice,0,strlen(choice)-1)
endif
endif
endif
let icoice= icoice + 1
" call Decho("choice<" . choice . "> icoice=" . icoice)

" Determine method of write (ftp, rcp, etc) {{{4
call s:NetrwMethod(choice)
if !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetWrite : unsupported method")
return
endif

" =====
" Perform Protocol-Based Write {{{4
" =====
if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1
echo "(netrw) Processing your write request..."
" call Decho("(netrw) Processing your write request...")
endif

".....
" rcp: NetWrite Method #1 {{{4
if b:netrw_method == 1
" call Decho("write via rcp (method #1)")
if s:netrw_has_nt_rcp == 1
if exists("g:netrw_uid") && (g:netrw_uid != "")
let uid_machine = g:netrw_machine .'.' g:netrw_uid
else
let uid_machine = g:netrw_machine .'.' $USERNAME
endif
else
if exists("g:netrw_uid") && (g:netrw_uid != "")
let uid_machine = g:netrw_uid .'@'. g:netrw_machine

```

```

else
 let uid_machine = g:netrw_machine
endif
endif
" call Decho("executing: !" .g:netrw_rcp_cmd." " .s:netrw_rcpmode." " .shellescape(tmpfile,1)."
.shellescape(uid_machine." ":".b:netrw_fname,1))
exe s:netrw_silentxfer."!" .g:netrw_rcp_cmd." " .s:netrw_rcpmode." " .shellescape(tmpfile,1)."
.shellescape(uid_machine." ":".b:netrw_fname,1)
let b:netrw_lastfile = choice

".....
" ftp + <.netrc>: NetWrite Method #2 {{{4
elseif b:netrw_method == 2
" call Decho("write via ftp+.netrc (method #2)")
let netrw_fname= b:netrw_fname
new
" call Decho("filter input window#" .winnr())
setlocal ff=unix
put =g:netrw_ftpmode
" call Decho("filter input: " .getline('$'))
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: " .getline("$"))
endif
call setline(line("$")+1,'put "' .tmpfile.'" "' .netrw_fname.'"')
" call Decho("filter input: " .getline("$"))
if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("executing: %" .g:netrw ftp_cmd." -i " .shellescape(g:netrw_machine,1)."
.shellescape(g:netrw_port,1))
exe s:netrw_silentxfer."%" .g:netrw ftp_cmd." -i " .shellescape(g:netrw_machine,1)."
.shellescape(g:netrw_port,1)
else
" call Decho("filter input window#" .winnr())
" call Decho("executing: %" .g:netrw ftp_cmd." -i " .shellescape(g:netrw_machine,1))
exe s:netrw_silentxfer."%" .g:netrw ftp_cmd." -i " .shellescape(g:netrw_machine,1)
endif
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,getline(1),14)
endif
let mod=1
endif
bd!
let b:netrw_lastfile = choice

".....
" ftp + machine, id, passwd, filename: NetWrite Method #3 {{{4

```

```

elseif b:netrw_method == 3
 " Construct execution string (four lines) which will be passed through filter
 " call Decho("read via ftp+mipf (method #3)")
 let netrw_fname= b:netrw_fname
 new
 setlocal ff=unix
 if exists("g:netrw_port") && g:netrw_port != ""
 put ='open '.g:netrw_machine.' '.g:netrw_port
 " call Decho("filter input: ".getline('.'))
 else
 put ='open '.g:netrw_machine
 " call Decho("filter input: ".getline('.'))
 endif
 if exists("g:netrw_ftp") && g:netrw_ftp == 1
 put =g:netrw_uid
 " call Decho("filter input: ".getline('.'))
 put ="\.s:netrw_passwd.\""
 " call Decho("filter input: ".getline('.'))
 else
 put ='user \".g:netrw_uid.\" \".s:netrw_passwd.\""
 " call Decho("filter input: ".getline('.'))
 endif
 put ='put \".tmpfile.\" \".netrw_fname.\""
 " call Decho("filter input: ".getline('.'))
 " save choice/id/password for future use
 let b:netrw_lastfile = choice

 " perform ftp:
 " -i : turns off interactive prompting from ftp
 " -n unix : DON'T use <.netrc>, even though it exists
 " -n win32: quit being obnoxious about password
 norm! 1Gdd
 " call Decho("executing: %!" .g:netrw_ftp_cmd." -i -n")
 exe s:netrw_silentxfer."%!" .g:netrw_ftp_cmd." -i -n"
 " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
 if getline(1) !~ "^$"
 if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,getline(1),15)
 endif
 let mod=1
 endif
 bd!

 ".....
 " scp: NetWrite Method #4 {{{4
 elseif b:netrw_method == 4
 " call Decho("write via scp (method #4)")
 if exists("g:netrw_port") && g:netrw_port != ""

```

```

let useport= " ".g:netrw_scpport." ".fnameescape(g:netrw_port)
else
let useport= ""
endif
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_scp_cmd.useport." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.".".b:netrw_fname,1))
exe s:netrw_silentxfer."!".g:netrw_scp_cmd.useport." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.".".b:netrw_fname,1)
let b:netrw_lastfile = choice

".....
" http: NetWrite Method #5 {{{4
elseif b:netrw_method == 5
" call Decho("write via http (method #5)")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"currently <netrw.vim> does not support writing using http:",16)
endif

".....
" dav: NetWrite Method #6 (cadaver) {{{4
elseif b:netrw_method == 6
" call Decho("write via cadaver (method #6)")

" Construct execution string (four lines) which will be passed through filter
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
new
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put ='open '.g:netrw_machine.' '.g:netrw_port
else
put ='open '.g:netrw_machine
endif
if exists("g:netrw_uid") && exists("s:netrw_passwd")
put ='user '.g:netrw_uid.' '.s:netrw_passwd
endif
put ='put '.tmpfile.' '.netrw_fname

" perform cadaver operation:
norm! 1Gdd
" call Decho("executing: %!".g:netrw_dav_cmd)
exe s:netrw_silentxfer."%!".g:netrw_dav_cmd
bd!
let b:netrw_lastfile = choice

".....
" rsync: NetWrite Method #7 {{{4
elseif b:netrw_method == 7
" call Decho("write via rsync (method #7)")

```

```

" call Decho("executing: !" .g:netrw_rsync_cmd." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine." ":".b:netrw_fname,1))
exe s:netrw_silentxfer."!" .g:netrw_rsync_cmd." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine." ":".b:netrw_fname,1)
let b:netrw_lastfile = choice

".....
" sftp: NetWrite Method #9 {{{4
elseif b:netrw_method == 9
" call Decho("read via sftp (method #9)")
let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
if exists("g:netrw_uid") && (g:netrw_uid != "")
let uid_machine = g:netrw_uid .'@'. g:netrw_machine
else
let uid_machine = g:netrw_machine
endif
new
setlocal ff=unix
put ='put \'".escape(tmpfile,\'').\'" '.netrw_fname
" call Decho("filter input: ".getline('.'))
norm! 1Gdd
" call Decho("executing: %!" .g:netrw_sftp_cmd.' '.shellescape(uid_machine,1))
exe s:netrw_silentxfer."%!" .g:netrw_sftp_cmd.' '.shellescape(uid_machine,1)
bd!
let b:netrw_lastfile= choice

".....
" Complain {{{4
else
call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",17)
endif
endwhile

" Cleanup: {{{3
" call Decho("cleanup")
if s:FileReadable(tmpfile)
" call Decho("tmpfile<".tmpfile."> readable, will now delete it")
call s:NetrwDelete(tmpfile)
endif
call s:NetrwOptionRestore("w:")

if a:firstline == 1 && a:lastline == line("$")
" restore modifiability; usually equivalent to set nomod
let &mod= mod
endif

" call Dret("netrw#NetWrite")
endfun

```



```

" -----
" netrw#NetSource: source a remotely hosted vim script {{{2
" uses NetRead to get a copy of the file into a temporarily file,
" then sources that file,
" then removes that file.
fun! netrw#NetSource(...)
" call Dfunc("netrw#NetSource() a:0=".a:0)
if a:0 > 0 && a:1 == '?'
" give help
echomsg 'NetSource Usage:'
echomsg ':Nsource dav://machine[:port]/path uses cadaver'
echomsg ':Nsource fetch://machine/path uses fetch'
echomsg ':Nsource ftp://[user@]machine[:port]/path uses ftp autodetects <.netrc>'
echomsg ':Nsource http://[user@]machine/path uses http wget'
echomsg ':Nsource rcp://[user@]machine/path uses rcp'
echomsg ':Nsource rsync://machine[:port]/path uses rsync'
echomsg ':Nsource scp://[user@]machine[[:#]port]/path uses scp'
echomsg ':Nsource sftp://[user@]machine[[:#]port]/path uses sftp'
sleep 4
else
let i= 1
while i <= a:0
call netrw#NetRead(3,a:{i})
" call Decho("netrw#NetSource) s:netread_tmpfile<".s:netrw_tmpfile.">")
if s:FileReadable(s:netrw_tmpfile)
" call Decho("netrw#NetSource) exe so ".fnameescape(s:netrw_tmpfile))
exe "so ".fnameescape(s:netrw_tmpfile)
" call Decho("netrw#NetSource) delete("s:netrw_tmpfile.")")
call delete(s:netrw_tmpfile)
unlet s:netrw_tmpfile
else
call netrw#ErrorMsg(s:ERROR,"unable to source <".a:{i}.">!",48)
endif
let i= i + 1
endwhile
endif
" call Dret("netrw#NetSource")
endfun

" =====
" s:NetrwGetFile: Function to read temporary file "tfile" with command "readcmd". {{{2
" readcmd == %r : replace buffer with newly read file
" == 0r : read file at top of buffer
" == r : read file after current line
" == t : leave file in temporary form (ie. don't read into buffer)
fun! s:NetrwGetFile(readcmd, tfile, method)
" call Dfunc("NetrwGetFile(readcmd<".a:readcmd.">,tfile<".a:tfile."> method<".a:method.">")

```

```

" readcmd=='t': simply do nothing
if a:readcmd == 't'
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("NetrwGetFile : skip read of <"a:tfile.">")
return
endif

" get name of remote filename (ie. url and all)
let rfile= bufname("% ")
" call Decho("rfile<".rfile.">")

if exists("*NetReadFixup")
" for the use of NetReadFixup (not otherwise used internally)
let line2= line("$")
endif

if a:readcmd[0] == '%'
" get file into buffer
" call Decho("get file into buffer")

" rename the current buffer to the temp file (ie. tfile)
if g:netrw_cygwin
let tfile= substitute(a:tfile,'/cygdrive/^(.)',\1:'.')
else
let tfile= a:tfile
endif
" call Decho("exe silent! keepalt file ".fnameescape(tfile))
exe "silent! keepalt file ".fnameescape(tfile)

" edit temporary file (ie. read the temporary file in)
if rfile =~ '\.zip$'
" call Decho("handling remote zip file with zip#Browse(tfile<".tfile.">)")
call zip#Browse(tfile)
elseif rfile =~ '\.tar$'
" call Decho("handling remote tar file with tar#Browse(tfile<".tfile.">)")
call tar#Browse(tfile)
elseif rfile =~ '\.tar.gz'
" call Decho("handling remote gzip-compressed tar file")
call tar#Browse(tfile)
elseif rfile =~ '\.tar.bz2'
" call Decho("handling remote bz2-compressed tar file")
call tar#Browse(tfile)
else
" call Decho("edit temporary file")
e!
endif

```

```

" rename buffer back to remote filename
" call Decho("exe silent! keepalt file ".fnameescape(rfile))
exe "silent! keepalt file ".fnameescape(rfile)
if a:method == 5
 set ft=html
else
 filetype detect
endif
" call Dredir("renamed buffer back to remote filename<".rfile."> : expand(%<".expand("%").">,"ls!")
let line1 = 1
let line2 = line("$")

elseif s:FileReadable(a:tfile)
" read file after current line
" call Decho("read file<".a:tfile."> after current line")
let curline = line(".")
let lastline= line("$")
" call Decho("exe<".a:readcmd." ".fnameescape(v:cmdarg)." ".fnameescape(a:tfile)."> line#".curline)
exe a:readcmd." ".fnameescape(v:cmdarg)." ".fnameescape(a:tfile)
let line1= curline + 1
let line2= line("$") - lastline + 1

else
" not readable
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Decho("tfile<".a:tfile."> not readable")
call netrw#ErrorMsg(s:WARNING,"file <".a:tfile."> not readable",9)
" call Dret("NetrwGetFile : tfile<".a:tfile."> not readable")
return
endif

" User-provided (ie. optional) fix-it-up command
if exists("*NetReadFixup")
" call Decho("calling NetReadFixup(method<".a:method."> line1="line1." line2="line2.")")
call NetReadFixup(a:method, line1, line2)
" else " Decho
" call Decho("NetReadFixup() not called, doesn't exist (line1="line1." line2="line2.")")
endif

if has("gui") && has("menu") && has("gui_running") && &go =~ 'm'
" update the Buffers menu
call s:UpdateBuffersMenu()
endif

" call Decho("readcmd<".a:readcmd."> cmdarg<".v:cmdarg."> tfile<".a:tfile."> readable="s:FileReadable(a:tfile))

" make sure file is being displayed
" redraw!

```

```

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("NetrwGetFile")
endfun

" -----
" s:NetrwMethod: determine method of transfer {{{2
" Input:
" choice = url [protocol:]/[userid@]hostname[:port]/[path-to-file]
" Output:
" b:netrw_method= 1: rcp
" 2: ftp + <.netrc>
" 3: ftp + machine, id, password, and [path]filename
" 4: scp
" 5: http (wget)
" 6: dav
" 7: rsync
" 8: fetch
" 9: sftp
" g:netrw_machine= hostname
" b:netrw_fname = filename
" g:netrw_port = optional port number (for ftp)
" g:netrw_choice = copy of input url (choice)
fun! s:NetrwMethod(choice)
" call Dfunc("NetrwMethod(a:choice<".a:choice.">")

" record current g:netrw_machine, if any
" curmachine used if protocol == ftp and no .netrc
if exists("g:netrw_machine")
let curmachine= g:netrw_machine
" call Decho("curmachine<".curmachine.">")
else
let curmachine= "N O T A HOST"
endif

" initialization
let b:netrw_method = 0
let g:netrw_machine = ""
let b:netrw_fname = ""
let g:netrw_port = ""
let g:netrw_choice = a:choice

" Patterns:
" mipf : a:machine a:id password filename Use ftp
" mf : a:machine filename Use ftp + <.netrc> or g:netrw_uid s:netrw_passwd
" ftpurm : ftp://[user@]host[[#:]port]/filename Use ftp + <.netrc> or g:netrw_uid s:netrw_passwd
" rcpurm : rcp://[user@]host/filename Use rcp
" rcphf : [user@]host:filename Use rcp

```



```

" call Decho("dav://...")
let b:netrw_method= 6
if a:choice =~ '^s'
 let g:netrw_machine= 'https://'.substitute(a:choice,davurm,'\1\2','')
else
 let g:netrw_machine= 'http://'.substitute(a:choice,davurm,'\1\2','')
endif
let b:netrw_fname = substitute(a:choice,davurm,'\3','')

" rsync://user@hostname/...path-to-file
elseif match(a:choice,rsyncurm) == 0
" call Decho("rsync://...")
let b:netrw_method = 7
let g:netrw_machine= substitute(a:choice,rsyncurm,'\1','')
let b:netrw_fname = substitute(a:choice,rsyncurm,'\2','')

" ftp://[user@]hostname[:#]port/...path-to-file
elseif match(a:choice,ftpurm) == 0
" call Decho("ftp://...")
let userid = substitute(a:choice,ftpurm,'\2','')
let g:netrw_machine= substitute(a:choice,ftpurm,'\3','')
let g:netrw_port = substitute(a:choice,ftpurm,'\4','')
let b:netrw_fname = substitute(a:choice,ftpurm,'\5','')
" call Decho("g:netrw_machine<"g:netrw_machine.">")
if userid != ""
 let g:netrw_uid= userid
endif
if exists("s:netrw_passwd") && curmachine != g:netrw_machine
 " if there's a change in hostname, require password re-entry
 unlet s:netrw_passwd
endif
if exists("g:netrw_uid") && exists("s:netrw_passwd")
 let b:netrw_method = 3
else
 if s:FileReadable(expand("$HOME/.netrc")) && !g:netrw_ignorenetrc
 let b:netrw_method= 2
 else
 if !exists("g:netrw_uid") || g:netrw_uid == ""
 call NetUserPass()
 elseif !exists("s:netrw_passwd") || s:netrw_passwd == ""
 call NetUserPass(g:netrw_uid)
 " else just use current g:netrw_uid and s:netrw_passwd
 endif
 let b:netrw_method= 3
 endif
endif

elseif match(a:choice,fetchurm) == 0

```

```

" call Decho("fetch://...")
let b:netrw_method = 8
let g:netrw_userid = substitute(a:choice,fetchurm,"\2'")
let g:netrw_machine= substitute(a:choice,fetchurm,"\3'")
let b:netrw_option = substitute(a:choice,fetchurm,"\4'")
let b:netrw_fname = substitute(a:choice,fetchurm,"\5'")

" Issue an ftp : "machine id password [path/]filename"
elseif match(a:choice,mipf) == 0
" call Decho("(ftp) host id pass file")
let b:netrw_method = 3
let g:netrw_machine = substitute(a:choice,mipf,"\1'")
let g:netrw_uid = substitute(a:choice,mipf,"\2'")
let s:netrw_passwd = substitute(a:choice,mipf,"\3'")
let b:netrw_fname = substitute(a:choice,mipf,"\4'")

" Issue an ftp: "hostname [path/]filename"
elseif match(a:choice,mf) == 0
" call Decho("(ftp) host file")
if exists("g:netrw_uid") && exists("s:netrw_passwd")
let b:netrw_method = 3
let g:netrw_machine = substitute(a:choice,mf,"\1'")
let b:netrw_fname = substitute(a:choice,mf,"\2'")

elseif s:FileReadable(expand("$HOME/.netrc"))
let b:netrw_method = 2
let g:netrw_machine = substitute(a:choice,mf,"\1'")
let b:netrw_fname = substitute(a:choice,mf,"\2'")
endif

" sftp://user@hostname/...path-to-file
elseif match(a:choice,sftpurm) == 0
" call Decho("sftp://...")
let b:netrw_method = 9
let g:netrw_machine= substitute(a:choice,sftpurm,"\1'")
let b:netrw_fname = substitute(a:choice,sftpurm,"\2'")

" Issue an rcp: hostname:filename" (this one should be last)
elseif match(a:choice,rcphf) == 0
" call Decho("(rcp) [user@]host:file) rcphf<"rcphf.">")
let b:netrw_method = 1
let userid = substitute(a:choice,rcphf,"\2'")
let g:netrw_machine = substitute(a:choice,rcphf,"\3'")
let b:netrw_fname = substitute(a:choice,rcphf,"\4'")
" call Decho("\1<'.substitute(a:choice,rcphf,\1'").>")
" call Decho("\2<'.substitute(a:choice,rcphf,\2'").>")
" call Decho("\3<'.substitute(a:choice,rcphf,\3'").>")
" call Decho("\4<'.substitute(a:choice,rcphf,\4'").>")

```

```

if userid != ""
 let g:netrw_uid= userid
endif

else
 if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:WARNING,"cannot determine method (format:
protocol://[user@]hostname[:port]/[path]",45)
 endif
 let b:netrw_method = -1
endif

" remove any leading [#] from port number
if g:netrw_port != ""
 let g:netrw_port = substitute(g:netrw_port,'[#:]\+',",")
endif

" call Decho("a:choice <.a.choice.>")
" call Decho("b:netrw_method <.b:netrw_method.>")
" call Decho("g:netrw_machine<.g:netrw_machine.>")
" call Decho("g:netrw_port <.g:netrw_port.>")
" if exists("g:netrw_uid") "Decho
" call Decho("g:netrw_uid <.g:netrw_uid.>")
" endif "Decho
" if exists("s:netrw_passwd") "Decho
" call Decho("s:netrw_passwd <.s:netrw_passwd.>")
" endif "Decho
" call Decho("b:netrw_fname <.b:netrw_fname.>")
" call Dret("NetrwMethod : b:netrw_method=" .b:netrw_method)
endfun

" -----
" NetReadFixup: this sort of function is typically written by the user {{{2
" to handle extra junk that their system's ftp dumps
" into the transfer. This function is provided as an
" example and as a fix for a Windows 95 problem: in my
" experience, win95's ftp always dumped four blank lines
" at the end of the transfer.
if has("win95") && exists("g:netrw_win95ftp") && g:netrw_win95ftp
fun! NetReadFixup(method, line1, line2)
" call Dfunc("NetReadFixup(method<.a.method.> line1=" .a:line1." line2=" .a:line2.")")

" sanity checks -- attempt to convert inputs to integers
let method = a:method + 0
let line1 = a:line1 + 0
let line2 = a:line2 + 0
if type(method) != 0 || type(line1) != 0 || type(line2) != 0 || method < 0 || line1 <= 0 || line2 <= 0
" call Dret("NetReadFixup")

```



```

return
endif

if method == 3 " ftp (no <.netrc>)
let fourblanklines= line2 - 3
if fourblanklines >= line1
exe "silent ".fourblanklines.", ".line2."g/^\s*$/d"
endif
endif

" call Dret("NetReadFixup")
endfun
endif

" -----
" NetUserPass: set username and password for subsequent ftp transfer {{{2
" Usage: :call NetUserPass() -- will prompt for userid and password
" :call NetUserPass("uid") -- will prompt for password
" :call NetUserPass("uid","password") -- sets global userid and password
fun! NetUserPass(...)

" get/set userid
if a:0 == 0
" call Dfunc("NetUserPass(a:0<"a:0.">)")
if !exists("g:netrw_uid") || g:netrw_uid == ""
" via prompt
let g:netrw_uid= input('Enter username: ')
endif
else " from command line
" call Dfunc("NetUserPass(a:1<"a:1.">) {")
let g:netrw_uid= a:1
endif

" get password
if a:0 <= 1 " via prompt
" call Decho("a:0="a:0." case <=1:")
let s:netrw_passwd= inputsecret("Enter Password: ")
else " from command line
" call Decho("a:0="a:0." case >1: a:2<"a:2.">")
let s:netrw_passwd=a:2
endif

" call Dret("NetUserPass")
endfun

" =====
" Shared Browsing Support: {{{1
" =====

```

```

" -----
" s:BrowserMaps: {{{2
fun! s:BrowserMaps(islocal)
" call Dfunc("s:BrowserMaps(islocal=".a:islocal.") b:netrw_curdir<" .b:netrw_curdir.">")
if a:islocal
" call Decho("make local maps")
 noremap <buffer> <silent> <cr> :call
netrw#LocalBrowseCheck(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord()))<cr>
 noremap <buffer> <silent> - :exe "norm! 0"<bar>call
netrw#LocalBrowseCheck(<SID>NetrwBrowseChgDir(1,'./'))<cr>
 noremap <buffer> <silent> a :call <SID>NetrwHide(1)<cr>
 noremap <buffer> <silent> mb :<c-u>call <SID>NetrwBookHistHandler(0,b:netrw_curdir)<cr>
 noremap <buffer> <silent> mc :<c-u>call <SID>NetrwMarkFileCopy(1)<cr>
 noremap <buffer> <silent> md :<c-u>call <SID>NetrwMarkFileDiff(1)<cr>
 noremap <buffer> <silent> me :<c-u>call <SID>NetrwMarkFileEdit(1)<cr>
 noremap <buffer> <silent> mf :<c-u>call <SID>NetrwMarkFile(1,<SID>NetrwGetWord())<cr>
 noremap <buffer> <silent> mg :<c-u>call <SID>NetrwMarkFileGrep(1)<cr>
 noremap <buffer> <silent> mh :<c-u>call <SID>NetrwMarkHideSfx(1)<cr>
 noremap <buffer> <silent> mm :<c-u>call <SID>NetrwMarkFileMove(1)<cr>
 noremap <buffer> <silent> mp :<c-u>call <SID>NetrwMarkFilePrint(1)<cr>
 noremap <buffer> <silent> mr :<c-u>call <SID>NetrwMarkFileRegexp(1)<cr>
 noremap <buffer> <silent> ms :<c-u>call <SID>NetrwMarkFileSource(1)<cr>
 noremap <buffer> <silent> mT :<c-u>call <SID>NetrwMarkFileTag(1)<cr>
 noremap <buffer> <silent> mt :<c-u>call <SID>NetrwMarkFileTgt(1)<cr>
 noremap <buffer> <silent> mu :<c-u>call <SID>NetrwUnMarkFile(1)<cr>
 noremap <buffer> <silent> mx :<c-u>call <SID>NetrwMarkFileExe(1)<cr>
 noremap <buffer> <silent> mz :<c-u>call <SID>NetrwMarkFileCompress(1)<cr>
 noremap <buffer> <silent> gb :<c-u>call <SID>NetrwBookHistHandler(1,b:netrw_curdir)<cr>
 noremap <buffer> <silent> gh :<c-u>call <SID>NetrwHidden(1)<cr>
 noremap <buffer> <silent> c :exe "keepjumps lcd ".fnameescape(b:netrw_curdir)<cr>
 noremap <buffer> <silent> C :let g:netrw_chgwin= winnr()<cr>
 noremap <buffer> <silent> d :call <SID>NetrwMakeDir("")<cr>
 noremap <buffer> <silent> i :call <SID>NetrwListStyle(1)<cr>
 noremap <buffer> <silent> o :call <SID>NetrwSplit(3)<cr>
 noremap <buffer> <silent> O :call <SID>NetrwObtain(1)<cr>
 noremap <buffer> <silent> p :call
<SID>NetrwPreview(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),1))<cr>
 noremap <buffer> <silent> P :call <SID>NetrwPrevWinOpen(1)<cr>
 noremap <buffer> <silent> qb :<c-u>call <SID>NetrwBookHistHandler(2,b:netrw_curdir)<cr>
 noremap <buffer> <silent> mB :<c-u>call <SID>NetrwBookHistHandler(6,b:netrw_curdir)<cr>
 noremap <buffer> <silent> qf :<c-u>call <SID>NetrwFileInfo(1,<SID>NetrwGetWord())<cr>
 noremap <buffer> <silent> r :let g:netrw_sort_direction= (g:netrw_sort_direction =~ 'n')? 'r' : 'n'<bar>exe "norm!
0"<bar>call <SID>NetrwRefresh(1,<SID>NetrwBrowseChgDir(1,'./'))<cr>
 noremap <buffer> <silent> s :call <SID>NetrwSortStyle(1)<cr>
 noremap <buffer> <silent> S :call <SID>NetSortSequence(1)<cr>
 noremap <buffer> <silent> t :call <SID>NetrwSplit(4)<cr>
 noremap <buffer> <silent> u :<c-u>call <SID>NetrwBookHistHandler(4,expand("%"))<cr>

```

```

nnooremap <buffer> <silent> U :<c-u>call <SID>NetrwBookHistHandler(5,expand("%"))<cr>
nnooremap <buffer> <silent> v :call <SID>NetrwSplit(5)<cr>
nnooremap <buffer> <silent> x :call
netrw#NetrwBrowseX(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),0,0)"<cr>
nnooremap <buffer> <silent> % :call <SID>NetrwOpenFile(1)<cr>
if !hasmapto('<Plug>NetrwHideEdit')
 nmap <buffer> <unique> <c-h> <Plug>NetrwHideEdit
endif
nnooremap <buffer> <silent> <Plug>NetrwHideEdit :call <SID>NetrwHideEdit(1)<cr>
if !hasmapto('<Plug>NetrwRefresh')
 nmap <buffer> <unique> <c-l> <Plug>NetrwRefresh
endif
nnooremap <buffer> <silent> <Plug>NetrwRefresh :call
<SID>NetrwRefresh(1,<SID>NetrwBrowseChgDir(1,'./'))<cr>
if s:didstarstar || !mapcheck("<s-down>","n")
 nnooremap <buffer> <silent> <s-down> :Nexplore<cr>
endif
if s:didstarstar || !mapcheck("<s-up>","n")
 nnooremap <buffer> <silent> <s-up> :Pexplore<cr>
endif
let mapsafecurdir = escape(b:netrw_curdir, s:netrw_map_escape)
if g:netrw_mousemaps == 1
 nnooremap <buffer> <silent> <leftmouse> <leftmouse>:call <SID>NetrwLeftmouse(1)<cr>
 nnooremap <buffer> <silent> <middlemouse> <leftmouse>:call <SID>NetrwPrevWinOpen(1)<cr>
 nnooremap <buffer> <silent> <s-leftmouse> <leftmouse>:call
<SID>NetrwMarkFile(1,<SID>NetrwGetWord())<cr>
 exe 'nnooremap <buffer> <silent> <rightmouse> <leftmouse>:call <SID>NetrwLocalRm(".mapsafecurdir.")<cr>'
 exe 'vnooremap <buffer> <silent> <rightmouse> <leftmouse>:call <SID>NetrwLocalRm(".mapsafecurdir.")<cr>'
endif
exe 'nnooremap <buffer> <silent> :call <SID>NetrwLocalRm(".mapsafecurdir.")<cr>'
exe 'vnooremap <buffer> <silent> :call <SID>NetrwLocalRm(".mapsafecurdir.")<cr>'
exe 'nnooremap <buffer> <silent> D :call <SID>NetrwLocalRm(".mapsafecurdir.")<cr>'
exe 'vnooremap <buffer> <silent> D :call <SID>NetrwLocalRm(".mapsafecurdir.")<cr>'
exe 'nnooremap <buffer> <silent> R :call <SID>NetrwLocalRename(".mapsafecurdir.")<cr>'
exe 'vnooremap <buffer> <silent> R :call <SID>NetrwLocalRename(".mapsafecurdir.")<cr>'
exe 'nnooremap <buffer> <silent> <Leader>m :call <SID>NetrwMakeDir("")<cr>'
nnooremap <buffer> <F1> :he netrw-quickhelp<cr>

else " remote
" call Decho("make remote maps")
call s:RemotePathAnalysis(b:netrw_curdir)
nnooremap <buffer> <silent> <cr> :call
<SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,<SID>NetrwGetWord()))<cr>
nnooremap <buffer> <silent> <c-l> :call <SID>NetrwRefresh(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
nnooremap <buffer> <silent> - :exe "norm! 0"<bar>call
<SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
nnooremap <buffer> <silent> a :call <SID>NetrwHide(0)<cr>
nnooremap <buffer> <silent> mb :<c-u>call <SID>NetrwBookHistHandler(0,b:netrw_curdir)<cr>

```

```

nnoemap <buffer> <silent> mc :<c-u>call <SID>NetrwMarkFileCopy(0)<cr>
nnoemap <buffer> <silent> md :<c-u>call <SID>NetrwMarkFileDiff(0)<cr>
nnoemap <buffer> <silent> me :<c-u>call <SID>NetrwMarkFileEdit(0)<cr>
nnoemap <buffer> <silent> mf :<c-u>call <SID>NetrwMarkFile(0,<SID>NetrwGetWord())<cr>
nnoemap <buffer> <silent> mg :<c-u>call <SID>NetrwMarkFileGrep(0)<cr>
nnoemap <buffer> <silent> mh :<c-u>call <SID>NetrwMarkHideSfx(0)<cr>
nnoemap <buffer> <silent> mm :<c-u>call <SID>NetrwMarkFileMove(0)<cr>
nnoemap <buffer> <silent> mp :<c-u>call <SID>NetrwMarkFilePrint(0)<cr>
nnoemap <buffer> <silent> mr :<c-u>call <SID>NetrwMarkFileRegexp(0)<cr>
nnoemap <buffer> <silent> ms :<c-u>call <SID>NetrwMarkFileSource(0)<cr>
nnoemap <buffer> <silent> mT :<c-u>call <SID>NetrwMarkFileTag(0)<cr>
nnoemap <buffer> <silent> mt :<c-u>call <SID>NetrwMarkFileTgt(0)<cr>
nnoemap <buffer> <silent> mu :<c-u>call <SID>NetrwUnMarkFile(0)<cr>
nnoemap <buffer> <silent> mx :<c-u>call <SID>NetrwMarkFileExe(0)<cr>
nnoemap <buffer> <silent> mz :<c-u>call <SID>NetrwMarkFileCompress(0)<cr>
nnoemap <buffer> <silent> gb :<c-u>call <SID>NetrwBookHistHandler(1,b:netrw_cur)<cr>
nnoemap <buffer> <silent> gh :<c-u>call <SID>NetrwHidden(0)<cr>
nnoemap <buffer> <silent> C :let g:netrw_chgwin= winnr()<cr>
nnoemap <buffer> <silent> i :call <SID>NetrwListStyle(0)<cr>
nnoemap <buffer> <silent> o :call <SID>NetrwSplit(0)<cr>
nnoemap <buffer> <silent> O :call <SID>NetrwObtain(0)<cr>
nnoemap <buffer> <silent> p :call
<SID>NetrwPreview(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),1))<cr>
nnoemap <buffer> <silent> P :call <SID>NetrwPrevWinOpen(0)<cr>
nnoemap <buffer> <silent> qb :<c-u>call <SID>NetrwBookHistHandler(2,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> mB :<c-u>call <SID>NetrwBookHistHandler(6,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> qf :<c-u>call <SID>NetrwFileInfo(0,<SID>NetrwGetWord())<cr>
nnoemap <buffer> <silent> r :let g:netrw_sort_direction= (g:netrw_sort_direction =~ 'n')? 'r' : 'n'<bar>exe "norm!
0"<bar>call <SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,'/'))<cr>
nnoemap <buffer> <silent> s :call <SID>NetrwSortStyle(0)<cr>
nnoemap <buffer> <silent> S :call <SID>NetSortSequence(0)<cr>
nnoemap <buffer> <silent> t :call <SID>NetrwSplit(1)<cr>
nnoemap <buffer> <silent> u :<c-u>call <SID>NetrwBookHistHandler(4,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> U :<c-u>call <SID>NetrwBookHistHandler(5,b:netrw_curdir)<cr>
nnoemap <buffer> <silent> v :call <SID>NetrwSplit(2)<cr>
nnoemap <buffer> <silent> x :call
netrw#NetrwBrowseX(<SID>NetrwBrowseChgDir(0,<SID>NetrwGetWord()),1)<cr>
nnoemap <buffer> <silent> % :call <SID>NetrwOpenFile(0)<cr>
if !hasmapto('<Plug>NetrwHideEdit')
 nmap <buffer> <c-h> <Plug>NetrwHideEdit
endif
nnoemap <buffer> <silent> <Plug>NetrwHideEdit :call <SID>NetrwHideEdit(0)<cr>
if !hasmapto('<Plug>NetrwRefresh')
 nmap <buffer> <c-l> <Plug>NetrwRefresh
endif

let mapsafepath = escape(s:path, s:netrw_map_escape)
let mapsafeusermach = escape(s:user.s:machine, s:netrw_map_escape)

```

```

nnoemap <buffer> <silent> <Plug>NetrwRefresh :call
<SID>NetrwRefresh(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
if g:netrw_mousemaps == 1
nnoemap <buffer> <silent> <leftmouse> <leftmouse>:call <SID>NetrwLeftmouse(0)<cr>
nnoemap <buffer> <silent> <middlemouse> <leftmouse>:call <SID>NetrwPrevWinOpen(0)<cr>
nnoemap <buffer> <silent> <s-leftmouse> <leftmouse>:call
<SID>NetrwMarkFile(0,<SID>NetrwGetWord())<cr>
exe 'nnoemap <buffer> <silent> <rightmouse> <leftmouse>:call
<SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'vnoemap <buffer> <silent> <rightmouse> <leftmouse>:call
<SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
endif
exe 'nnoemap <buffer> <silent> :call <SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'vnoemap <buffer> <silent> :call <SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'nnoemap <buffer> <silent> d :call <SID>NetrwMakeDir(".mapsafeusermach.")<cr>'
exe 'nnoemap <buffer> <silent> D :call <SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'vnoemap <buffer> <silent> D :call <SID>NetrwRemoteRm(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'nnoemap <buffer> <silent> R :call <SID>NetrwRemoteRename(".mapsafeusermach.", ".mapsafepath.")<cr>'
exe 'vnoemap <buffer> <silent> R :call <SID>NetrwRemoteRename(".mapsafeusermach.", ".mapsafepath.")<cr>'
nnoemap <buffer> <F1> :he netrw-quickhelp<cr>
endif
call s:SetRexDir(a:islocal,b:netrw_curdir)
" call Dret("s:BrowserMaps")
endfun

```

```

" -----
" s:ExplorePatHls: converts an Explore pattern into a regular expression search pattern {{{2
fun! s:ExplorePatHls(pattern)
" call Dfunc("s:ExplorePatHls(pattern<"a:pattern.">)")
let repat= substitute(a:pattern,'^**^\{1,2}',",")
" call Decho("repat<".repat.">")
let repat= escape(repat,'[.\|]')
" call Decho("repat<".repat.">")
let repat= '<'.substitute(repat,'*', '\(\|S\|+ \|)*\|S\|+', 'g').'\>'
" call Dret("s:ExplorePatHls repat<".repat.">")
return repat
endfun

```

```

" -----
" s:NetrwBookHistHandler: {{{2
" 0: (user: <mb>) bookmark current directory
" 1: (user: <gb>) change to the bookmarked directory
" 2: (user: <qb>) list bookmarks
" 3: (browsing) record current directory history
" 4: (user: <u>) go up (previous) bookmark
" 5: (user: <U>) go down (next) bookmark
" 6: (user: <mB>) delete bookmark

```

```

fun! s:NetrwBookHistHandler(chg,curdir)
" call Dfunc("NetrwBookHistHandler(chg=".a:chg." curdir<".a:curdir.">) cnt=".v:count."
histcnt=".g:netrw_dirhist_cnt." histmax=".g:netrw_dirhistmax)

if a:chg == 0
" bookmark the current directory
" call Decho("(user:) bookmark the current directory")
if !exists("g:netrw_bookmarklist")
let g:netrw_bookmarklist= []
endif
if index(g:netrw_bookmarklist,a:curdir) == -1
" curdir not currently in g:netrw_bookmarklist, so include it
call add(g:netrw_bookmarklist,a:curdir)
call sort(g:netrw_bookmarklist)
endif
echo "bookmarked the current directory"

elseif a:chg == 1
" change to the bookmarked directory
" call Decho("(user: <.v:count."mb>) change to the bookmarked directory")
if exists("g:netrw_bookmarklist[v:count-1]")
exe "e ".fnameescape(g:netrw_bookmarklist[v:count-1])
else
echomsg "Sorry, bookmark#".v:count." doesn't exist!"
endif

elseif a:chg == 2
" redraw!
let didwork= 0
" list user's bookmarks
" call Decho("(user: <q>) list user's bookmarks")
if exists("g:netrw_bookmarklist")
" call Decho('list '.len(g:netrw_bookmarklist).' bookmarks')
let cnt= 1
for bmd in g:netrw_bookmarklist
" call Decho("Netrw Bookmark#".cnt.": ".g:netrw_bookmarklist[cnt-1])
echo "Netrw Bookmark#".cnt.": ".g:netrw_bookmarklist[cnt-1]
let didwork = 1
let cnt = cnt + 1
endfor
endif

" list directory history
let cnt = g:netrw_dirhist_cnt
let first = 1
let histcnt = 0
while (first || cnt != g:netrw_dirhist_cnt)
" call Decho("first=".first." cnt=".cnt." dirhist_cnt=".g:netrw_dirhist_cnt)

```

```

let histcnt= histcnt + 1
if exists("g:netrw_dirhist_{cnt}")
" call Decho("Netrw History#".histcnt.: ".g:netrw_dirhist_{cnt}")
echo "Netrw History#".histcnt.: ".g:netrw_dirhist_{cnt}"
let didwork= 1
endif
let first = 0
let cnt = (cnt - 1) % g:netrw_dirhistmax
if cnt < 0
let cnt= cnt + g:netrw_dirhistmax
endif
endwhile
if didwork
call inputsave()|call input("Press <cr> to continue")|call inputrestore()
endif

elseif a:chg == 3
" saves most recently visited directories (when they differ)
" call Decho("(browsing) record curdir history")
if !exists("g:netrw_dirhist_cnt") || !exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}") ||
g:netrw_dirhist_{g:netrw_dirhist_cnt} != a:curdir
let g:netrw_dirhist_cnt = (g:netrw_dirhist_cnt + 1) % g:netrw_dirhistmax
let g:netrw_dirhist_{g:netrw_dirhist_cnt} = a:curdir
" call Decho("save dirhist#".g:netrw_dirhist_cnt."<"g:netrw_dirhist_{g:netrw_dirhist_cnt}.">")
endif

elseif a:chg == 4
" u: change to the previous directory stored on the history list
" call Decho("(user: <u>) chg to prev dir from history")
let g:netrw_dirhist_cnt= (g:netrw_dirhist_cnt - 1) % g:netrw_dirhistmax
if g:netrw_dirhist_cnt < 0
let g:netrw_dirhist_cnt= g:netrw_dirhist_cnt + g:netrw_dirhistmax
endif
if exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}")
" call Decho("changedir u#".g:netrw_dirhist_cnt."<"g:netrw_dirhist_{g:netrw_dirhist_cnt}.">")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
setlocal ma noro
" call Decho("setlocal ma noro")
%d
setlocal nomod
" call Decho("setlocal nomod")
endif
" " call Decho("exe e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt}))
exe "e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt})
else
let g:netrw_dirhist_cnt= (g:netrw_dirhist_cnt + 1) % g:netrw_dirhistmax
echo "Sorry, no predecessor directory exists yet"
endif

```

```

elseif a:chg == 5
" U: change to the subsequent directory stored on the history list
" call Decho("(user: <U>) chg to next dir from history")
let g:netrw_dirhist_cnt= (g:netrw_dirhist_cnt + 1) % g:netrw_dirhistmax
if exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}")
" call Decho("changedir U#" .g:netrw_dirhist_cnt."<" .g:netrw_dirhist_{g:netrw_dirhist_cnt}.">")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
setlocal ma noro
" call Decho("setlocal ma noro")
%d
" call Decho("removed all lines from buffer (%d)")
setlocal nomod
" call Decho("setlocal nomod")
endif
" call Decho("exe e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt}))
exe "e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt})
else
let g:netrw_dirhist_cnt= (g:netrw_dirhist_cnt - 1) % g:netrw_dirhistmax
if g:netrw_dirhist_cnt < 0
let g:netrw_dirhist_cnt= g:netrw_dirhist_cnt + g:netrw_dirhistmax
endif
echo "Sorry, no successor directory exists yet"
endif

elseif a:chg == 6
" delete the v:count'th bookmark
" call Decho("delete bookmark#" .v:count."<" .g:netrw_bookmarklist[v:count-1].">")
let savefile= s:NetrwHome()."/.netrwbook"
if filereadable(savefile)
call s:NetrwBookHistSave() " done here to merge bookmarks first
call delete(savefile)
endif
call remove(g:netrw_bookmarklist,v:count-1)
endif
call s:NetrwBookmarkMenu()
" call Dret("NetrwBookHistHandler")
endfun

" -----
" s:NetrwBookHistRead: this function reads bookmarks and history {{{2
" Sister function: s:NetrwBookHistSave()
fun! s:NetrwBookHistRead()
" call Dfunc("s:NetrwBookHistRead()")
if !exists("s:netrw_initbookhist")
let savefile= s:NetrwHome()."/.netrwbook"
if filereadable(savefile)
" call Decho("sourcing .netrwbook")

```



```

 exe "so ".savefile
endif
let savefile= s:NetrwHome()."/.netrwhist"
if filereadable(savefile)
" call Decho("sourcing .netrwhist")
 exe "so ".savefile
endif
let s:netrw_initbookhist= 1
au VimLeave * call s:NetrwBookHistSave()
endif
" call Dret("s:NetrwBookHistRead")
endfun

" -----
" s:NetrwBookHistSave: this function saves bookmarks and history {{{2
" Sister function: s:NetrwBookHistRead()
" I used to do this via viminfo but that appears to
" be unreliable for long-term storage
" COMBAK: does $HOME work under windows???
fun! s:NetrwBookHistSave()
" call Dfunc("s:NetrwBookHistSave() dirhistmax=".g:netrw_dirhistmax)
let savefile= s:NetrwHome()."/.netrwhist"
lsplit
enew
setlocal noswf

" save .netrwhist -- no attempt to merge
file .netrwhist
call setline(1,"let g:netrw_dirhistmax =" .g:netrw_dirhistmax)
call setline(2,"let g:netrw_dirhist_cnt =" .g:netrw_dirhist_cnt)
let lastline = line("$")
let cnt = 1
while cnt <= g:netrw_dirhist_cnt
 call setline((cnt+lastline),'let g:netrw_dirhist_' .cnt ."=" .g:netrw_dirhist_{cnt} .""')
 let cnt= cnt + 1
endwhile
exe "silent! w! ".savefile
%d

if exists("g:netrw_bookmarklist") && g:netrw_bookmarklist != []
" merge and write .netrwbook
let savefile= s:NetrwHome()."/.netrwbook"

if filereadable(savefile)
 let booklist= deepcopy(g:netrw_bookmarklist)
 exe "silent so ".savefile
 for bdm in booklist
 if index(g:netrw_bookmarklist,bdm) == -1

```

```

 call add(g:netrw_bookmarklist,bdm)
endif
endfor
call sort(g:netrw_bookmarklist)
exe "silent! w! ".savefile
endif

" construct and save .netrwbook
call setline(1,"let g:netrw_bookmarklist= ".string(g:netrw_bookmarklist))
exe "silent! w! ".savefile
endif
let bgone= bufnr("%")
q!
exe bgone."bwipe!"

" call Dret("s:NetrwBookHistSave")
endfun

" -----
" s:NetrwBrowse: This function uses the command in g:netrw_list_cmd to provide a {{{2
" list of the contents of a local or remote directory. It is assumed that the
" g:netrw_list_cmd has a string, USEPORT HOSTNAME, that needs to be substituted
" with the requested remote hostname first.
fun! s:NetrwBrowse(islocal,dirname)
if !exists("w:netrw_liststyle")|let w:netrw_liststyle= g:netrw_liststyle|endif
" call Dfunc("s:NetrwBrowse(islocal=".a:islocal." dirname<".a:dirname.">) liststyle=".w:netrw_liststyle."
".g:loaded_netrw." buf#" .bufnr("%")."<".bufname("%").">")
" call Decho("tab#" .tabpagenr(). " win#" .winnr())
" call Dredir("ls!")
if !exists("s:netrw_initbookhist")
call s:NetrwBookHistRead()
endif

if exists("s:netrw_skipbrowse")
unlet s:netrw_skipbrowse
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : s:netrw_skipbrowse=" .s:netrw_skipbrowse)
return
endif
if !exists("shellescape")
call netrw#ErrorMsg(s:ERROR,"netrw can't run -- your vim is missing shellescape()",69)
" call Dret("s:NetrwBrowse : missing shellescape()")
return
endif
if !exists("fnameescape")
call netrw#ErrorMsg(s:ERROR,"netrw can't run -- your vim is missing fnameescape()",70)
" call Dret("s:NetrwBrowse : missing fnameescape()")
return

```

```

endif

call s:NetrwOptionSave("w:")
call s:NetrwSafeOptions()

" re-instate any marked files
if exists("s:netrwmarkfilelist_{bufnr('%')}")
" call Decho("clearing marked files")
exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}. "/"
endif

if a:islocal && exists("w:netrw_acdkeep") && w:netrw_acdkeep
" call Decho("handle w:netrw_acdkeep:")
" call Decho("keepjumps lcd ".fnameescape(a:dirname)." (due to w:netrw_acdkeep=".w:netrw_acdkeep." -
acd=".&acd.")")
exe 'keepjumps lcd '.fnameescape(a:dirname)
" call Decho("getcwd<".getcwd().">")

elseif !a:islocal && a:dirname !~ '[V]$\$' && a:dirname !~ '^"'
" looks like a regular file, attempt transfer
" call Decho("attempt transfer as regular file<".a:dirname.">")

" remove any filetype indicator from end of dirname, except for the {{{3
" "this is a directory" indicator (/).
" There shouldn't be one of those here, anyway.
let path= substitute(a:dirname, "[*=@|]r\=$',';','e')
" call Decho("new path<".path.">")
call s:RemotePathAnalysis(a:dirname)

" remote-read the requested file into current buffer {{{3
mark '
call s:NetrwEnew(a:dirname)
setlocal ma noro
" call Decho("setlocal ma noro")
let b:netrw_curdir= a:dirname
" call Decho("exe silent! keepalt file ".fnameescape(s:method."/".s:user.s:machine."/".s:path)." (bt=".&bt.")")
exe "silent! keepalt file ".fnameescape(s:method."/".s:user.s:machine."/".s:path)
exe "silent keepalt doau BufReadPre ".fnameescape(s:fname)
silent call netrw#NetRead(2,s:method."/".s:user.s:machine."/".s:path)
if s:path !~ '.tar.bz2$\$' && s:path !~ '.tar.gz'
" netrw.vim and tar.vim have already handled decompression of the tarball; avoiding gzip.vim error
exe "silent keepalt doau BufReadPost ".fnameescape(s:fname)
endif

" save certain window-oriented variables into buffer-oriented variables {{{3
call s:SetBufWinVars()
call s:NetrwOptionRestore("w:")
setlocal ma nomod

```

```

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : file<".s:fname.">")
return
endif

" use buffer-oriented WinVars if buffer ones exist but window ones don't {{{3
call s:UseBufWinVars()

" set up some variables {{{3
let b:netrw_browser_active = 1
let dirname = a:dirname
let s:last_sort_by = g:netrw_sort_by

" set up menu {{{3
call s:NetrwMenu(1)

" set up buffer {{{3
let reusing= s:NetrwGetBuffer(a:islocal,dirname)
" maintain markfile highlighting
if exists("s:netrwmarkfilemtch_{bufnr('%')}") && s:netrwmarkfilemtch_{bufnr("%")} != ""
" call Decho("bufnr(%)"=bufnr('%'))
" call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/"
exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/"
else
" call Decho("2match none")
2match none
endif
if reusing
call s:NetrwOptionRestore("w:")
setlocal noma nomod nowrap
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : re-using buffer")
return
endif

" set b:netrw_curdir to the new directory name {{{3
" call Decho("set b:netrw_curdir to the new directory name:")
let b:netrw_curdir= dirname
if b:netrw_curdir =~ '[^\\]$'
let b:netrw_curdir= substitute(b:netrw_curdir,'[^\\]$','e')
endif
if b:netrw_curdir == ""
if has("amiga")
" On the Amiga, the empty string connotes the current directory
let b:netrw_curdir= getcwd()
else
" under unix, when the root directory is encountered, the result

```

```

" from the preceding substitute is an empty string.
let b:netrw_curdir= '/'
endif
endif
if !a:islocal && b:netrw_curdir !~ '/'$'
let b:netrw_curdir= b:netrw_curdir.'/'
endif
" call Decho("b:netrw_curdir<"b:netrw_curdir.">")

" -----
" (local only) {{{3
" -----
if a:islocal
" call Decho("local only:")

" Set up ShellCmdPost handling. Append current buffer to browselist
call s:LocalFastBrowser()

" handle g:netrw_keepdir: set vim's current directory to netrw's notion of the current directory {{{3
if !g:netrw_keepdir
" call Decho("handle g:netrw_keepdir="g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
" call Decho("l:acd".(exists("&l:acd")? "=".&l:acd : " doesn't exist"))
if !exists("&l:acd") || !&l:acd
" call Decho('exe keepjumps lcd '.fnameescape(b:netrw_curdir))
try
exe 'keepjumps lcd '.fnameescape(b:netrw_curdir)
catch /^Vim\%((\a\+)\)=:E472/
call netrw#ErrorMsg(s:ERROR,"unable to change directory to <"b:netrw_curdir."> (permissions?)",61)
if exists("w:netrw_prvdir")
let b:netrw_curdir= w:netrw_prvdir
else
call s:NetrwOptionRestore("w:")
setlocal noma nomod nowrap
let b:netrw_curdir= dirname
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : reusing buffer#".(exists("bufnum")? bufnum : 'N/A')." <"dirname.">
getcwd<".getcwd().">")
return
endif
endtry
endif
endif

" -----
" remote handling: {{{3
" -----
else
" call Decho("remote only:")

```

```

" analyze a:dirname and g:netrw_list_cmd {{{4
" call Decho("b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "doesn't exist").">
a:dirname<".a:dirname.">")
if a:dirname =~ "^NetrwTreeListing\>"
 let dirname= b:netrw_curdir
" call Decho("(dirname was ".a:dirname.") dirname<".dirname.">")
elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
 let dirname= substitute(b:netrw_curdir,"\\','g')
 if dirname !~ '/'
 let dirname= dirname.'/'
 endif
 let b:netrw_curdir = dirname
" call Decho("(liststyle is TREELIST) dirname<".dirname.">")
else
 let dirname = substitute(a:dirname,"\\','g')
" call Decho("(normal) dirname<".dirname.">")
endif

let dirpat = '^(\w\{-}\):/\w\{+}@)=\([^\w\+]\)\w\{+}\(.*\)$'
if dirname !~ dirpat
 if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,"netrw doesn't understand your dirname<".dirname.">",20)
 endif
 call s:NetrwOptionRestore("w:")
 setlocal noma nomod nowrap
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : badly formatted dirname<".dirname.">")
return
endif
let b:netrw_curdir= dirname
" call Decho("b:netrw_curdir<".b:netrw_curdir."> (remote)")
endif " (additional remote handling)

" -----
" Directory Listing: {{{3
" -----
call s:BrowserMaps(a:islocal)
call s:PerformListing(a:islocal)

" The s:LocalBrowseShellCmdRefresh() function is called by an autocmd
" installed by s:LocalFastBrowser() when g:netrw_fastbrowse <= 1 (ie. slow, medium speed).
" However, s:NetrwBrowse() causes the ShellCmdPost event itself to fire once; setting
" the variable below avoids that second refresh of the screen. The s:LocalBrowseShellCmdRefresh()
" function gets called due to that autocmd; it notices that the following variable is set
" and skips the refresh and sets s:locbrowseshellcmd to zero. Oct 13, 2008
let s:locbrowseshellcmd= 1

```

```

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:NetrwBrowse : did PerformListing")
return
endfun

" -----
" s:NetrwFileInfo: supports qf (query for file information) {{{2
fun! s:NetrwFileInfo(islocal,fname)
" call Dfunc("s:NetrwFileInfo(islocal=".a:islocal." fname<".a:fname.">")
if a:islocal
if (has("unix") || has("macunix")) && executable("/bin/ls")
if exists("b:netrw_curdir")
" call Decho('using ls with b:netrw_curdir<'.b:netrw_curdir.>')
if b:netrw_curdir =~ '/'$
echo system("/bin/ls -lsad ".shellescape(b:netrw_curdir.a:fname))
else
echo system("/bin/ls -lsad ".shellescape(b:netrw_curdir."/".a:fname))
endif
else
" call Decho('using ls '.a:fname." using cwd<".getcwd().">")
echo system("/bin/ls -lsad ".shellescape(a:fname))
endif
else
" use vim functions to return information about file below cursor
" call Decho("using vim functions to query for file info")
if !isdirectory(a:fname) && !filereadable(a:fname) && a:fname =~ '[@/]'
let fname= substitute(a:fname,".$","","")
else
let fname= a:fname
endif
let t = getftime(fname)
let sz = getfsize(fname)
echo a:fname.: ".sz." ".strftime(g:netrw_timefmt,getftime(fname))
" call Decho(fname.: ".sz." ".strftime(g:netrw_timefmt,getftime(fname)))
endif
else
echo "sorry, \"qf\" not supported yet for remote files"
endif
" call Dret("s:NetrwFileInfo")
endfun

" -----
" s:NetrwGetBuffer: {{{2
" returns 0=cleared buffer
" 1=re-used buffer
fun! s:NetrwGetBuffer(islocal,dirname)
" call Dfunc("s:NetrwGetBuffer(islocal=".a:islocal." dirname<".a:dirname.">) liststyle=".g:netrw_liststyle)
let dirname= a:dirname

```

```

" re-use buffer if possible {{{3
" call Decho("--re-use a buffer if possible--")
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
" find NetrwTreeList buffer if there is one
if exists("w:netrw_treebufnr") && w:netrw_treebufnr > 0
" call Decho(" re-use w:netrw_treebufnr=".w:netrw_treebufnr)
let eikeep= &ei
set ei=all
exe "b ".w:netrw_treebufnr
let &ei= eikeep
" call Dret("s:NetrwGetBuffer : bufnum#" .w:netrw_treebufnr."<NetrwTreeListing>")
return
endif
let bufnum= -1
" call Decho(" liststyle=TREE but w:netrw_treebufnr doesn't exist")

else
" find buffer number of buffer named precisely the same as dirname {{{3
" call Decho("--find buffer numnber of buffer named precisely the same as dirname--")
" call Dredir("ls!")

" get dirname and associated buffer number
let bufnum = bufnr(escape(dirname,\))
" call Decho(" find buffer<".dirname.">'s number ")
" call Decho(" bufnr(dirname<".escape(dirname,\).">)"=".bufnum)

if bufnum < 0 && dirname !~ '/'$'
" trying appending a trailing /
" call Decho(" try appending a trailing / to dirname<".dirname.">")
let bufnum= bufnr(escape(dirname.'/,\))
if bufnum > 0
let dirname= dirname.'/'
endif
endif

if bufnum < 0 && dirname =~ '/'$'
" trying removing a trailing /
" call Decho(" try removing a trailing / from dirname<".dirname.">")
let bufnum= bufnr(escape(substitute(dirname,'/$',''),\))
if bufnum > 0
let dirname= substitute(dirname,'/$','')
endif
endif

" call Decho(" findbuf1: bufnum=bufnr(" .dirname.")=" .bufnum." bufname(" .bufnum."<".bufname(bufnum).">
(initial)")
" note: !~ was used just below, but that means using ../ to go back would match (ie. abc/def/ and abc/ matches)

```



```

if bufnum > 0 && bufname(bufnum) != dirname && bufname(bufnum) != '
" handle approximate matches
" call Decho(" handling approx match: bufnum#%d<".bufname(bufnum)."> approx=dirname<".dirname.">")
let ibuf = 1
let buflast = bufnr("$")
" call Decho(" findbuf2: buflast=".buflast)
while ibuf <= buflast
let bname= substitute(bufname(ibuf),"\|',/','g')
let bname= substitute(bname,'\zs/$','")
" call Decho(" findbuf3: dirname<".dirname."> bufname(".ibuf.")<".bname.">")
if bname != " && dirname =~ '/'.bname.'\^=$' | break | endif
if bname =~ '^'.dirname.'\^=$' | break | endif
if dirname =~ '^'.bname.'/$' | break | endif
let ibuf= ibuf + 1
endwhile
if ibuf > buflast
let bufnum= -1
else
let bufnum= ibuf
endif
" call Decho(" findbuf4: bufnum=".bufnum." (ibuf=".ibuf." buflast=".buflast.")")
endif
endif

" get anew buffer and name it -or- re-use buffer {{{3
" call Decho("--get anew buffer and name it OR re-use buffer-- (bufnum=".bufnum.")")
mark '
if bufnum < 0 || !bufexists(bufnum)
call s:NetrwEnew(dirname)
" call Decho(" got anew buffer#.bufnr("%")." (altbuf<".expand("#").">")
" name the buffer
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
" Got anew buffer; transform into a NetrwTreeListing
" call Decho("--transform anew buffer#.bufnr("%")." into a NetrwTreeListing --")
if !exists("s:netrw_treelistnum")
let s:netrw_treelistnum= 1
else
let s:netrw_treelistnum= s:netrw_treelistnum + 1
endif
let w:netrw_treebufnr= bufnr("%")
" call Decho(" exe silent! keepalt file NetrwTreeListing ".fnameescape(s:netrw_treelistnum))
exe 'silent! keepalt file NetrwTreeListing\'.fnameescape(s:netrw_treelistnum)
nnoremap <silent> <buffer> [:silent call <SID>TreeListMove([']<cr>
nnoremap <silent> <buffer>] :silent call <SID>TreeListMove([']<cr>
nnoremap <silent> <buffer> [[:silent call <SID>TreeListMove([']<cr>
nnoremap <silent> <buffer>]] :silent call <SID>TreeListMove([']<cr>
" call Decho(" tree listing#.s:netrw_treelistnum." bufnr=".w:netrw_treebufnr)
else

```

```

" let v:errmsg= "" " Decho
 let escdirname= fnameescape(dirname)
" call Decho(" errmsg<".v:errmsg.">
bufnr(".escdirname.")=".bufnr(escdirname)."<".bufname(bufnr(escdirname)).">")
" call Decho(' exe silent! keepalt file '.escdirname)
 exe 'silent! keepalt file '.escdirname
" call Decho(" errmsg<".v:errmsg.">
bufnr(".escdirname.")=".bufnr(escdirname)."<".bufname(bufnr(escdirname)).">")
endif
" call Decho(" named anew buffer#.bufnr("%")."<".bufname("%").">")

else " Re-use the buffer
" call Decho("--re-use buffer#.bufnum.": --")
let eikp= &ei
set ei=all
if getline(2) =~ '^" Netrw Directory Listing'
" call Decho(" re-use buffer#.bufnum."<".((bufnum > 0)? bufname(bufnum) : "")."> using: keepalt b ".bufnum)
 exe "keepalt b ".bufnum
else
" call Decho(" reusing buffer#.bufnum."<".((bufnum > 0)? bufname(bufnum) : "")."> using: b ".bufnum)
 exe "b ".bufnum
endif
if bufname("%") == ''
" call Decho("exe silent! keepalt file ".fnameescape(getcwd()))
 exe "silent! keepalt file ".fnameescape(getcwd())
endif
let &ei= eikp
if line("$") <= 1
 call s:NetrwListSettings(a:islocal)
" call Dret("s:NetrwGetBuffer 0 : re-using buffer#.bufnr("%").", but its empty, so refresh it")
 return 0
elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
" call Decho("--re-use tree listing--")
" call Decho(" clear buffer<".expand("%")."> with :%d")
 silent %d
 call s:NetrwListSettings(a:islocal)
" call Dret("s:NetrwGetBuffer 0 : re-using buffer#.bufnr("%").", but treelist mode always needs a refresh")
 return 0
else
" call Dret("s:NetrwGetBuffer 1 : buf#.bufnr("%"))
 return 1
endif
endif

" do netrw settings: make this buffer not-a-file, modifiable, not line-numbered, etc {{{3
" fastbrowse Local Remote Hiding a buffer implies it may be re-used (fast)
" slow 0 D D Deleting a buffer implies it will not be re-used (slow)
" med 1 D H

```

```

" fast 2 H H
" call Decho("--do netrw settings: make this buffer not-a-file, modifiable, not line-numbered, etc--")
let fname= expand("%")
call s:NetrwListSettings(a:islocal)
" call Decho("exe keepalt file ".fnameescape(fname))
exe "keepalt file ".fnameescape(fname)

" delete all lines from buffer {{{3
" call Decho("--delete all lines from buffer--")
" call Decho(" clear buffer<".expand("%")."> with :%d")
keepalt silent! %d

" call Dret("s:NetrwGetBuffer 0 : buf#" .bufnr("%"))
return 0
endfun

" -----
" s:NetrwGetcwd: get the current directory. {{{2
" Change backslashes to forward slashes, if any.
" If doesc is true, escape certain troublesome characters
fun! s:NetrwGetcwd(doesc)
" call Dfunc("NetrwGetcwd(doesc=".a:doesc.")")
let curdir= substitute(getcwd(),"\\','ge')
if curdir !~ '[\V]$\$'
let curdir= curdir.'/'
endif
if a:doesc
let curdir= fnameescape(curdir)
endif
" call Dret("NetrwGetcwd <".curdir.">")
return curdir
endfun

" -----
" s:NetrwGetWord: it gets the directory/file named under the cursor {{{2
fun! s:NetrwGetWord()
" call Dfunc("s:NetrwGetWord() line#".line(".").liststyle=".g:netrw_liststyle." virtcol=".virtcol("."))
call s:UseBufWinVars()

" insure that w:netrw_liststyle is set up
if !exists("w:netrw_liststyle")
if exists("g:netrw_liststyle")
let w:netrw_liststyle= g:netrw_liststyle
else
let w:netrw_liststyle= s:THINLIST
endif
" call Decho("w:netrw_liststyle=".w:netrw_liststyle)
endif

```

```

if exists("w:netrw_bannercnt") && line(".") < w:netrw_bannercnt
" Active Banner support
" call Decho("active banner handling")
norm! 0
let dirname= "/"
let curline= getline('.')

if curline =~ "\s*Sorted by\s'"
norm s
let s:netrw_skipbrowse= 1
echo 'Pressing "s" also works'

elseif curline =~ "\s*Sort sequence:'
let s:netrw_skipbrowse= 1
echo 'Press "S" to edit sorting sequence'

elseif curline =~ "\s*Quick Help:'
norm ?
let s:netrw_skipbrowse= 1
echo 'Pressing "?" also works'

elseif curline =~ "\s*\%(Hiding\|Showing\):'"
norm a
let s:netrw_skipbrowse= 1
echo 'Pressing "a" also works'

elseif line("$") > w:netrw_bannercnt
exe 'silent keepjumps '.w:netrw_bannercnt
endif

elseif w:netrw_liststyle == s:THINLIST
" call Decho("thin column handling")
norm! 0
let dirname= getline('.')

elseif w:netrw_liststyle == s:LONGLIST
" call Decho("long column handling")
norm! 0
let dirname= substitute(getline('.'),'^(\%(\S+ \)*\S+).\{-}$',\1,'e')

elseif w:netrw_liststyle == s:TREELIST
" call Decho("treelist handling")
let dirname= substitute(getline('.'),'^(\| \)*',",",'e')

else
" call Decho("obtain word from wide listing")
let dirname= getline('.')

```

```

if !exists("b:netrw_cpf")
 let b:netrw_cpf= 0
 exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^./if virtcol("$") > b:netrw_cpf|let b:netrw_cpf= virtcol("$)|endif'
" call Decho("computed cpf=".b:netrw_cpf)
endif

" call Decho("buf#".bufnr("%")."<".bufname("%").">")
let filestart = (virtcol(".)/b:netrw_cpf)*b:netrw_cpf
" call Decho("filestart= ([virtcol=".virtcol(".).")]/[b:netrw_cpf=".b:netrw_cpf."])*b:netrw_cpf=.filestart."
bannercnt=".w:netrw_bannercnt)
" call Decho("1: dirname<".dirname.">")
if filestart == 0
 norm! 0ma
else
 call cursor(line("."),filestart+1)
 norm! ma
endif
let rega= @a
let eofname= filestart + b:netrw_cpf + 1
if eofname <= col("$")
 call cursor(line("."),filestart+b:netrw_cpf+1)
 norm! "ay'a
else
 norm! "ay$
endif
let dirname = @a
let @a = rega
" call Decho("2: dirname<".dirname.">")
let dirname= substitute(dirname,'\s\+$','','e')
" call Decho("3: dirname<".dirname.">")
endif

" symlinks are indicated by a trailing "@". Remove it before further processing.
let dirname= substitute(dirname,"@$","","")

" executables are indicated by a trailing "*". Remove it before further processing.
let dirname= substitute(dirname,"*\$","","")

" call Dret("s:NetrwGetWord <".dirname.">")
return dirname
endfun

" -----
" s:NetrwListSettings: {{{2
fun! s:NetrwListSettings(islocal)
" call Dfunc("s:NetrwListSettings(islocal=".a:islocal.")")
let fname= bufname("%")

```

```

" call Decho("setlocal bt=nofile nobl ma nonu nowrap noro")
setlocal bt=nofile nobl ma nonu nowrap noro
" call Decho("exe keepalt file ".fnameescape(fname))
exe "keepalt file ".fnameescape(fname)
if g:netrw_use_noswf
 setlocal noswf
endif
" call Dredir("ls!")
" call Decho("exe setlocal ts=".g:netrw_maxfilenamelen)
exe "setlocal ts=".g:netrw_maxfilenamelen
setlocal isk+=.,~,-
if g:netrw_fastbrowse > a:islocal
 setlocal bh=hide
else
 setlocal bh=delete
endif
" call Dret("s:NetrwListSettings")
endfun

" -----
" s:NetrwListStyle: {{ {2
" islocal=0: remote browsing
" =1: local browsing
fun! s:NetrwListStyle(islocal)
" call Dfunc("NetrwListStyle(islocal=".a:islocal.") w:netrw_liststyle=".w:netrw_liststyle)
let fname = s:NetrwGetWord()
if !exists("w:netrw_liststyle")|let w:netrw_liststyle= g:netrw_liststyle|endif
let w:netrw_liststyle = (w:netrw_liststyle + 1) % s:MAXLIST
" call Decho("fname<".fname.">")
" call Decho("chgd w:netrw_liststyle to ".w:netrw_liststyle)
" call Decho("b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "doesn't exist").">")

if w:netrw_liststyle == s:THINLIST
 " use one column listing
 " call Decho("use one column list")
 let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')

elseif w:netrw_liststyle == s:LONGLIST
 " use long list
 " call Decho("use long list")
 let g:netrw_list_cmd = g:netrw_list_cmd." -l"

elseif w:netrw_liststyle == s:WIDELIST
 " give wide list
 " call Decho("use wide list")
 let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')

elseif w:netrw_liststyle == s:TREELIST

```

```

" call Decho("use tree list")
let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')

else
call netrw#ErrorMsg(s:WARNING,"bad value for g:netrw_liststyle (=".w:netrw_liststyle.")",46)
let g:netrw_liststyle = s:THINLIST
let w:netrw_liststyle = g:netrw_liststyle
let g:netrw_list_cmd = substitute(g:netrw_list_cmd,'-l','ge')
endif
setlocal ma noro
" call Decho("setlocal ma noro")

" clear buffer - this will cause NetrwBrowse/LocalBrowseCheck to do a refresh
" call Decho("clear buffer<".expand("%")."> with :%d")
%d

" refresh the listing
let svpos= netrw#NetrwSavePosn()
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
if w:netrw_liststyle != s:WIDELIST
if g:netrw_cursorline == 2
setlocal cursorline
let &cursorcolumn= s:netrw_usercuc
elseif g:netrw_cursorline
setlocal cursorline
" call Decho("setlocal cursorline")
endif
else
if g:netrw_cursorline == 2
setlocal cursorline cursorcolumn
" call Decho("setlocal cursorline cursorcolumn")
elseif g:netrw_cursorline
let &cursorline= s:netrw_usercul
endif
endif

" keep cursor on the filename
silent keepjumps $
let result= search('\% (^% (|+|s)\)=|s\{2,}\)\zs'.escape(fname,'.[]*$^').\%(\s\{2,}\|$\)','bc')
" call Decho("search result=".result." w:netrw_bannercnt="(exists("w:netrw_bannercnt")? w:netrw_bannercnt :
'N/A'))
if result <= 0 && exists("w:netrw_bannercnt")
exe "keepjumps ".w:netrw_bannercnt
endif

" call Dret("NetrwListStyle".(exists("w:netrw_liststyle")? ' : w:netrw_liststyle='.w:netrw_liststyle : ""))
endfun

```

```

" -----
" s:NetrwBookmarkMenu: Uses menu priorities {{{2
" .2.[cnt] for bookmarks, and
" .3.[cnt] for history
" (see s:NetrwMenu())
fun! s:NetrwBookmarkMenu()
if !exists("s:netrw_menucnt")
return
endif
" call Dfunc("NetrwBookmarkMenu() histcnt="g:netrw_dirhist_cnt." menucnt="s:netrw_menucnt)

" the following test assures that gvim is running, has menus available, and has menus enabled.
if has("gui") && has("menu") && has("gui_running") && &go =~ 'm' && g:netrw_menu
if exists("g:NetrwTopLvlMenu")
" call Decho("removing "g:NetrwTopLvlMenu."Bookmarks menu item(s)")
exe 'silent! unmenu 'g:NetrwTopLvlMenu.'Bookmarks'
exe 'silent! unmenu 'g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Bookmark\ Delete'
endif
if !exists("s:netrw_initbookhist")
call s:NetrwBookHistRead()
endif

" show bookmarked places
if exists("g:netrw_bookmarklist") && g:netrw_bookmarklist != []
let cnt= 1
for bmd in g:netrw_bookmarklist
" call Decho('silent! menu 'g:NetrwMenuPriority.".2.".cnt." "g:NetrwTopLvlMenu.'Bookmark.'.bmd.' :e '.bmd)
let bmd= escape(bmd, ' ')

" show bookmarks for goto menu
exe 'silent! menu 'g:NetrwMenuPriority.".2.".cnt." "g:NetrwTopLvlMenu.'Bookmarks.'.bmd.' :e '.bmd."<cr>"

" show bookmarks for deletion menu
exe 'silent! menu 'g:NetrwMenuPriority.".8.2.".cnt." "g:NetrwTopLvlMenu.'Bookmarks\ and\
History.Bookmark\ Delete.'.bmd.'.cnt."mB"
let cnt= cnt + 1
endfor

endif

" show directory browsing history
let cnt = g:netrw_dirhist_cnt
let first = 1
let histcnt = 0
while (first || cnt != g:netrw_dirhist_cnt)
let histcnt = histcnt + 1
let priority = g:netrw_dirhist_cnt + histcnt

```



```

if exists("g:netrw_dirhist_{cnt}")
 let histdir= escape(g:netrw_dirhist_{cnt},'\&? ')
" call Decho('silent! menu 'g:NetrwMenuPriority.'.3.'.priority.'" "g:NetrwTopLvlMenu.'History.'.histdir.' :e
'.histdir)
 exe 'silent! menu 'g:NetrwMenuPriority.'.3.'.priority.'" "g:NetrwTopLvlMenu.'History.'.histdir.' :e
'.histdir.'"<cr>'
endif
let first = 0
let cnt = (cnt - 1) % g:netrw_dirhistmax
if cnt < 0
 let cnt= cnt + g:netrw_dirhistmax
endif
endwhile

endif
" call Dret("NetrwBookmarkMenu")
endfun

" -----
" s:NetrwBrowseChgDir: constructs a new directory based on the current {{{2
" directory and a new directory name. Also, if the
" "new directory name" is actually a file,
" NetrwBrowseChgDir() edits the file.
fun! s:NetrwBrowseChgDir(islocal,newdir,...)
" call Dfunc("s:NetrwBrowseChgDir(islocal=".a:islocal."> newdir<".a:newdir.">) a:0=".a:0."
curpos<".string(getpos("."))."> b:netrw_curdir<".(exists("b:netrw_curdir"? b:netrw_curdir : "").">")

if !exists("b:netrw_curdir")
 " Don't try to change-directory: this can happen, for example, when netrw#ErrorMsg has been called
 " and the current window is the NetrwMessage window.
 " call Decho("(NetrwBrowseChgDir) b:netrw_curdir doesn't exist!")
 " call Decho("getcwd<".getcwd().">")
 " call Dredir("Is!")
 " call Dret("s:NetrwBrowseChgDir")
 return
endif

call s:NetrwOptionSave("s:")
call s:NetrwSafeOptions()
let nbcd_curpos = netrw#NetrwSavePosn()
let s:nbcd_curpos_{bufnr('%')} = nbcd_curpos
let dirname = substitute(b:netrw_curdir, '\\', '/', 'ge')
let newdir = a:newdir
let dolockout = 0

" set up o/s-dependent directory recognition pattern
if has("amiga")
 let dirpat= '[\v:}$'

```

```

else
 let dirpat= '[\V]$\$'
endif
" call Decho("dirname<".dirname."> dirpat<".dirpat.">")

if dirname !~ dirpat
 " apparently vim is "recognizing" that it is in a directory and
 " is removing the trailing "/". Bad idea, so I put it back.
 let dirname= dirname.'/'
 " call Decho("adjusting dirname<".dirname.">")
endif

if newdir !~ dirpat
 " -----
 " edit a file:
 " -----
 " call Decho('case "handling a file": newdir<'.newdir.> !~ dirpat<'.dirpat.">')
 if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict") && newdir !~
 ^\(\|a:\)'
 let dirname= s:NetrwTreeDir()
 if dirname =~ '$'
 let dirname= dirname.newdir
 else
 let dirname= s:NetrwTreeDir()."/".newdir
 endif
 " call Decho("tree listing")
 elseif newdir =~ ^\(\|a:\)'
 let dirname= newdir
 else
 let dirname= s:ComposePath(dirname,newdir)
 endif
 " call Decho("handling a file: dirname<".dirname."> (a:0="a:0.")")
 " this lets NetrwBrowseX avoid the edit
 if a:0 < 1
 " call Decho("set up windows for editing<".fnameescape(dirname)."> didsplit="(exists("s:didsplit")? s:didsplit :
 "doesn't exist"))
 call s:NetrwOptionRestore("s:")
 if !exists("s:didsplit")
 if g:netrw_browse_split == 1
 new
 wincmd _
 elseif g:netrw_browse_split == 2
 rightb vert new
 wincmd |
 elseif g:netrw_browse_split == 3
 tabnew
 elseif g:netrw_browse_split == 4
 if s:NetrwPrevWinOpen(2) == 3

```

```

" call Dret("s:NetrwBrowseChgDir")
 return
endif
else
" handling a file, didn't split, so remove menu
" call Decho("handling a file+didn't split, so remove menu")
 call s:NetrwMenu(0)
" optional change to window
if g:netrw_chgwin >= 1
 exe "keepjumps ".g:netrw_chgwin."wincmd w"
endif
endif
endif
" the point where netrw actually edits the (local) file
" if its local only: LocalBrowseCheck() doesn't edit a file, but NetrwBrowse() will
if a:islocal
" call Decho("edit local file: exe e! ".fnameescape(dirname))
 exe "e! ".fnameescape(dirname)
else
" call Decho("remote file: NetrwBrowse will edit it")
endif
let dolockout= 1
endif

elseif newdir =~ '^/'
" -----
" just go to the new directory spec
" -----
" call Decho('case "just go to new directory spec": newdir<'.newdir.'>')
let dirname= newdir
call s:SetRexDir(a:islocal,dirname)
call s:NetrwOptionRestore("s:")

elseif newdir == './'
" -----
" refresh the directory list
" -----
" call Decho('case "refresh directory listing": newdir == "./"')
call s:SetRexDir(a:islocal,dirname)

elseif newdir == '../'
" -----
" go up one directory
" -----
" call Decho('case "go up one directory": newdir == "../"')

if w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
" force a refresh

```

```

" call Decho("clear buffer<".expand("%")."> with :%d")
setlocal noro ma
" call Decho("setlocal noro ma")
keepjumps %d
endif

if has("amiga")
" amiga
" call Decho('case "go up one directory": newdir == "../" and amiga')
if a:islocal
let dirname= substitute(dirname,'^\([^:]*\)(\([^/]*\)+$)',\1,")
let dirname= substitute(dirname,/$/,",")
else
let dirname= substitute(dirname,'^\([^:]*\)(\([^/]*\)+/$)',\1,")
endif
" call Decho("amiga: dirname<".dirname."> (go up one dir)")

else
" unix or cygwin
" call Decho('case "go up one directory": newdir == "../" and unix or cygwin')
if a:islocal
let dirname= substitute(dirname,'^\([^:]*\)(\([^/]*\)+/$)',\1,")
if dirname == ""
let dirname= '/'
endif
else
let dirname= substitute(dirname,'^\([a\+:\./\{-}\^]{1,2}\)(\{-}\)(\([^/]*\)+/$)',\1\2,")
endif
" call Decho("unix: dirname<".dirname."> (go up one dir)")
endif
call s:SetRexDir(a:islocal,dirname)

elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
" call Decho('case liststyle is TREELIST and w:netrw_treedict exists')
" force a refresh (for TREELIST, wait for NetrwTreeDir() to force the refresh)
setlocal noro ma
" call Decho("setlocal noro ma")
if !(exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir"))
" call Decho("clear buffer<".expand("%")."> with :%d")
keepjumps %d
endif
let treedir = s:NetrwTreeDir()
let s:treecurpos = nbcd_curpos
let haskey= 0
" call Decho("w:netrw_treedict<".string(w:netrw_treedict).">")

" search treedict for tree dir as-is
if has_key(w:netrw_treedict,treedir)

```

```

" call Decho('....searched for treedir<!.treedir.> : found it!')
 let haskey= 1
else
" call Decho('....searched for treedir<!.treedir.> : not found')
endif

" search treedict for treedir with a / appended
if !haskey && treedir !~ '/'
 if has_key(w:netrw_treedict,treedir."/")
 let treedir= treedir."/"/>
" call Decho('....searched.for treedir<!.treedir.> found it!')
 let haskey = 1
else
" call Decho('....searched for treedir<!.treedir.> : not found')
endif
endif

" search treedict for treedir with any trailing / elided
if !haskey && treedir =~ '/'
 let treedir= substitute(treedir,'/','$',",")
 if has_key(w:netrw_treedict,treedir)
" call Decho('....searched.for treedir<!.treedir.> found it!')
 let haskey = 1
else
" call Decho('....searched for treedir<!.treedir.> : not found')
endif
endif

if haskey
 " close tree listing for selected subdirectory
" call Decho("closing selected subdirectory<".dirname.">")
call remove(w:netrw_treedict,treedir)
" call Decho("removed entry<".dirname."> from treedict")
" call Decho("yielding treedict<".string(w:netrw_treedict).">")
let dirname= w:netrw_treetop
else
 " go down one directory
let dirname= substitute(treedir,'/*$',',/')
" call Decho("go down one dir: treedir<".treedir.">")
endif
call s:SetRexDir(a:islocal,dirname)

else
 " go down one directory
let dirname= s:ComposePath(dirname,newdir)
" call Decho("go down one dir: dirname<".dirname."> newdir<".newdir.">")
call s:SetRexDir(a:islocal,dirname)
endif

```

```

call s:NetrwOptionRestore("s:")
if dolockout
" call Decho("doing modification lockout settings: ma nomod noro")
setlocal ma nomod noro
" call Decho("setlocal ma nomod noro")
endif

" call Dret("s:NetrwBrowseChgDir <".dirname."> : curpos<".string(getpos(".")).">")
return dirname
endfun

" -----
" s:NetrwBrowseX: allows users to write custom functions to operate on {{2
" files given their extension. Passes 0=local, 1=remote
fun! netrw#NetrwBrowseX(fname,remote)
" call Dfunc("NetrwBrowseX(fname<".a:fname."> remote="a:remote.")")

" set up the filename
" (lower case the extension, make a local copy of a remote file)
let exten= substitute(a:fname,'.*\.\{-}\)',\1,'e')
if has("win32") || has("win95") || has("win64") || has("win16")
let exten= substitute(exten,'^.*$',\L&\E',")
endif
" call Decho("exten<".exten.">")

" seems kde systems often have gnome-open due to dependencies, even though
" gnome-open's subsidiary display tools are largely absent. Kde systems
" usually have "kdeinit" running, though... (tnx Mikolaj Machowski)
if !exists("s:haskdeinit")
if has("unix")
let s:haskdeinit= system("ps -e") =~ 'kdeinit'
if v:shell_error
let s:haskdeinit = 0
endif
else
let s:haskdeinit= 0
endif
" call Decho("setting s:haskdeinit="s:haskdeinit)
endif

if a:remote == 1
" create a local copy
" call Decho("a:remote="a:remote.": create a local copy of <".a:fname.">")
setlocal bh=delete
call netrw#NetRead(3,a:fname)
" attempt to rename tempfile
let basename= substitute(a:fname,'^\(.*\)\(.*\)\.\([^\.]*)$',\2',")

```

```

let newname= substitute(s:netrw_tmpfile,'^\(.*\)\/\(.*\)\.([^\.]*)$',\1/'.basename.'\3,")
" call Decho("basename<".basename.">")
" call Decho("newname <".newname.">")
if rename(s:netrw_tmpfile,newname) == 0
" renaming succeeded
let fname= newname
else
" renaming failed
let fname= s:netrw_tmpfile
endif
else
let fname= a:fname
endif
" call Decho("fname<".fname.">")
" call Decho("exten<".exten.">")
"."netrwFileHandlers#NFH_".exten."):exists=".exists("netrwFileHandlers#NFH_".exten))

" set up redirection
if &srr =~ "%s"
if (has("win32") || has("win95") || has("win64") || has("win16"))
let redir= substitute(&srr,"%s","nul",")
else
let redir= substitute(&srr,"%s","/dev/null",")
endif
elseif (has("win32") || has("win95") || has("win64") || has("win16"))
let redir= &srr . "nul"
else
let redir= &srr . "/dev/null"
endif
" call Decho("redir{" .redir." } srr{" .&srr."}")

" extract any viewing options. Assumes that they're set apart by quotes.
if exists("g:netrw_browse_viewer")
if g:netrw_browse_viewer =~ 's'
let viewer = substitute(g:netrw_browse_viewer,'s.*$',")
let viewopt = substitute(g:netrw_browse_viewer,'^\S|+|s*',"") "
let oviewer = "
let cnt = 1
while !executable(viewer) && viewer != oviewer
let viewer = substitute(g:netrw_browse_viewer,'^\((^\S|+|s+)\){'.cnt.'}\S|+)\(.*$',\1,")
let viewopt = substitute(g:netrw_browse_viewer,'^\((^\S|+|s+)\){'.cnt.'}\S|+)\(.*$',\3,") "
let cnt = cnt + 1
let oviewer = viewer
" call Decho("!exe: viewer<".viewer."> viewopt<".viewopt.">")
endwhile
else
let viewer = g:netrw_browse_viewer
let viewopt = ""

```

```

endif
" call Decho("viewer<".viewer."> viewopt<".viewopt.">")
endif

" execute the file handler
if exists("g:netrw_browsex_viewer") && g:netrw_browsex_viewer == '-'
" call Decho("g:netrw_browsex_viewer<".g:netrw_browsex_viewer.">")
let ret= netrwFileHandlers#Invoke(exten,fname)

elseif exists("g:netrw_browsex_viewer") && executable(viewer)
" call Decho("g:netrw_browsex_viewer<".g:netrw_browsex_viewer.">")
" call Decho("exe silent !".viewer." ".viewopt.shellescape(fname,1).redir)
exe "silent !".viewer." ".viewopt.shellescape(fname,1).redir
let ret= v:shell_error

elseif has("win32") || has("win64")
" call Decho('exe silent !start rundll32 url.dll,FileProtocolHandler '.shellescape(fname,1))
exe 'silent !start rundll32 url.dll,FileProtocolHandler '.shellescape(fname,1)
call inputsave()|call input("Press <cr> to continue")|call inputrestore()
let ret= v:shell_error

elseif has("unix") && executable("gnome-open") && !s:haskdeinit
" call Decho("exe silent !gnome-open ".shellescape(fname,1)." ".redir)
exe "silent !gnome-open ".shellescape(fname,1).redir
let ret= v:shell_error

elseif has("unix") && executable("kfmclient") && s:haskdeinit
" call Decho("exe silent !kfmclient exec ".shellescape(fname,1)." ".redir)
exe "silent !kfmclient exec ".shellescape(fname,1)." ".redir
let ret= v:shell_error

elseif has("macunix") && executable("open")
" call Decho("exe silent !open ".shellescape(fname,1)." ".redir)
exe "silent !open ".shellescape(fname,1)." ".redir
let ret= v:shell_error

else
" netrwFileHandlers#Invoke() always returns 0
let ret= netrwFileHandlers#Invoke(exten,fname)
endif

" if unsuccessful, attempt netrwFileHandlers#Invoke()
if ret
let ret= netrwFileHandlers#Invoke(exten,fname)
endif

" restoring redraw! after external file handlers
redraw!

```



```

" cleanup: remove temporary file,
" delete current buffer if success with handler,
" return to prior buffer (directory listing)
" Feb 12, 2008: had to de-activate removal of
" temporary file because it wasn't getting seen.
" if a:remote == 1 && fname != a:fname
" call Decho("deleting temporary file<".fname.">")
" call s:NetrwDelete(fname)
" endif

if a:remote == 1
 setlocal bh=delete bt=nofile
 if g:netrw_use_noswf
 setlocal noswf
 endif
 exe "norm! \<c-o>"
" redraw!
endif

" call Dret("NetrwBrowseX")
endfun

" -----
" netrw#Explore: launch the local browser in the directory of the current file {{{2
" indx: == -1: Nexplore
" == -2: Pexplore
" == +: this is overloaded:
" * If Nexplore/Pexplore is in use, then this refers to the
" indx'th item in the w:netrw_explore_list[] of items which
" matched the */pattern */pattern */pattern */pattern
" * If Hexplore or Vexplore, then this will override
" g:netrw_winsize to specify the qty of rows or columns the
" newly split window should have.
" dosplit==0: the window will be split iff the current file has been modified
" dosplit==1: the window will be split before running the local browser
" style == 0: Explore style == 1: Explore!
" == 2: Hexplore style == 3: Hexplore!
" == 4: Vexplore style == 5: Vexplore!
" == 6: Texplore
"DechoTabOn
fun! netrw#Explore(indx,dosplit,style,...)
" call Dfunc("netrw#Explore(indx=".a:indx." dosplit=".a:dosplit." style=".a:style.",a:1<".a:1.">)
&modified=".&modified." a:0=".a:0)
if !exists("b:netrw_curdir")
 let b:netrw_curdir= getcwd()
" call Decho("set b:netrw_curdir<".b:netrw_curdir."> (used getcwd)")
endif

```

```

let curfile= b:netrw_curdir
" call Decho("curfile<".curfile.">")

" save registers
silent! let keepregstar = @*
silent! let keepregplus = @+
silent! let keepregslash= @/

" if dosplit or file has been modified
if a:dosplit || &modified || a:style == 6
" call Decho("case: dosplit=".a:dosplit." modified=".&modified." a:style=".a:style)
call s:SaveWinVars()
let winsize= g:netrw_winsize
if a:indx > 0
let winsize= a:indx
endif

if a:style == 0 " Explore, Sexplore
" call Decho("style=0: Explore or Sexplore")
exe winsize."wincmd s"

elseif a:style == 1 "Explore!, Sexplore!"
" call Decho("style=1: Explore! or Sexplore!")
exe winsize."wincmd v"

elseif a:style == 2 " Hexplore
" call Decho("style=2: Hexplore")
exe "bel ".winsize."wincmd s"

elseif a:style == 3 " Hexplore!"
" call Decho("style=3: Hexplore!")
exe "abo ".winsize."wincmd s"

elseif a:style == 4 " Vexplore
" call Decho("style=4: Vexplore")
exe "lefta ".winsize."wincmd v"

elseif a:style == 5 " Vexplore!"
" call Decho("style=5: Vexplore!")
exe "rightb ".winsize."wincmd v"

elseif a:style == 6 " Texplore
call s:SaveBufVars()
" call Decho("style = 6: Texplore")
tabnew
call s:RestoreBufVars()
endif
call s:RestoreWinVars()

```

```

endif
norm! 0

if a:0 > 0
" call Decho("case [a:0=" .a:0."]>0: a:1<" .a:1.">")
if a:1 =~ '\~' && (has("unix") || (exists("g:netrw_cygwin") && g:netrw_cygwin))
let dirname= substitute(a:1,'\~',expand("$HOME"),)
" call Decho("using dirname<".dirname."> (case: ~ && unix|cygwin)")
elseif a:1 == '!'
let dirname= exists("b:netrw_curdir"? b:netrw_curdir : getcwd()
if dirname !~ '/'$'
let dirname= dirname."/\"
endif
" call Decho("using dirname<".dirname."> (case: ".(exists("b:netrw_curdir"? b:netrw_curdir : "getcwd()).")")
elseif a:1 =~ '\$'
let dirname= expand(a:1)
else
let dirname= a:1
" call Decho("using dirname<".dirname.">")
endif
else
" clear explore
" call Decho("clearing explore variables")
2match none
if exists("s:explore_match") |unlet s:explore_match |endif
if exists("s:explore_idx") |unlet s:explore_idx |endif
if exists("s:dirstarstar") |unlet s:dirstarstar |endif
if exists("s:dirstarstar") |unlet s:dirstarstar |endif
if exists("w:netrw_explore_idx") |unlet w:netrw_explore_idx |endif
if exists("w:netrw_explore_listlen")|unlet w:netrw_explore_listlen|endif
if exists("w:netrw_explore_list") |unlet w:netrw_explore_list |endif
if exists("w:netrw_explore_bufnr") |unlet w:netrw_explore_bufnr |endif
" redraw!
echo " "
echo " "
" call Dret("netrw#Explore : cleared list")
return
endif

if dirname =~ '\^*\/'
" handle .../~/filepat
" call Decho("case Explore .../~/filepat")
let prefixdir= substitute(dirname,'\^(\{-}\)*\.*$',\1,")
if prefixdir =~ '^/' || (prefixdir =~ '^a:/' && (has("win32") || has("win95") || has("win64") || has("win16")))
let b:netrw_curdir = prefixdir
else
let b:netrw_curdir= getcwd().'/'.prefixdir
endif

```

```

let dirname= substitute(dirname,^\.{-}\(\{*\}.*\)$,\1,")
let starpat= 4;
" call Decho("pwd<".getcwd()."> dirname<".dirname.">")
" call Decho("case Explore ../**/./filepat (starpat=".starpat.")")

elseif dirname =~ '\{*\}'
" starpat=1: Explore */pattern (current directory only search for files containing pattern)
" call Decho("case Explore */pattern")
let pattern= substitute(dirname,^\{*\}/\{*\}$,\1,")
let starpat= 1
" call Decho("Explore */pat: (starpat=".starpat.") dirname<".dirname."> -> pattern<".pattern.">")
if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif

elseif dirname =~ '\{*\}/*'
" starpat=2: Explore **/pattern (recursive descent search for files containing pattern)
" call Decho("case Explore **/pattern")
let pattern= substitute(dirname,^\{*\}/*,\1,")
let starpat= 2
" call Decho("Explore **/pat: (starpat=".starpat.") dirname<".dirname."> -> pattern<".pattern.">")

elseif dirname =~ '\{*\}'
" starpat=3: Explore */filepat (search in current directory for filenames matching filepat)
let starpat= 3
" call Decho("case Explore */filepat (starpat=".starpat.")")

elseif dirname =~ '\{*\}/*'
" starpat=4: Explore **/filepat (recursive descent search for filenames matching filepat)
let starpat= 4
" call Decho("case Explore **/filepat (starpat=".starpat.")")
else
let starpat= 0
endif

if starpat == 0 && a:indx >= 0
" [Explore Hexplore Vexplore Sexplore] [dirname]
" call Decho("case dirname<".dirname."> a:indx="a:indx.": Explore Hexplore Vexplore Sexplore")
if dirname == ""
let dirname= substitute(expand("%:p"),^\{*\}[\{*\}][^\\]*$,\1,'e')
endif
if dirname =~ '^scp:' || dirname =~ '^ftp:'
" call Decho("calling NetrwBrowse(0,dirname<".dirname.">)")
call s:NetrwBrowse(0,dirname)
else
if dirname == ""|let dirname= getcwd()|endif
" call Decho("calling LocalBrowseCheck(dirname<".dirname.">)")
call netrw#LocalBrowseCheck(dirname)
endif

```

```

" call Decho("curfile<".curfile.">")
if has("win32") || has("win95") || has("win64") || has("win16")
 call search('\<'.substitute(curfile,'^.*[\|]',',e').'\>',cW)
else
 call search('\<'.substitute(curfile,'^.*/',',e').'\>',cW)
endif

" starpat=1: Explore */pattern (current directory only search for files containing pattern)
" starpat=2: Explore **/pattern (recursive descent search for files containing pattern)
" starpat=3: Explore */filepat (search in current directory for filenames matching filepat)
" starpat=4: Explore **/filepat (recursive descent search for filenames matching filepat)
elseif a:indx <= 0
 " Nexplore, Pexplore, Explore: handle starpat
 " call Decho("case Nexplore, Pexplore, <s-down>, <s-up>: starpat=".starpat." a:indx=".a:indx)
 if !mapcheck("<s-up>","n") && !mapcheck("<s-down>","n") && exists("b:netrw_curdir")
 " call Decho("set up <s-up> and <s-down> maps")
 let s:didstarstar= 1
 noremap <buffer> <silent> <s-up> :Pexplore<cr>
 noremap <buffer> <silent> <s-down> :Nexplore<cr>
endif

if has("path_extra")
" call Decho("starpat=".starpat.": has +path_extra")
if !exists("w:netrw_explore_indx")
 let w:netrw_explore_indx= 0
endif

let indx = a:indx
" call Decho("starpat=".starpat.": set indx= [a:indx=".indx."]")

if indx == -1
 " Nexplore
" call Decho("case Nexplore with starpat=".starpat.": (indx=".indx.")")
if !exists("w:netrw_explore_list") " sanity check
 call netrw#ErrorMsg(s:WARNING,"using Nexplore or <s-down> improperly; see help for netrw-starstar",40)
 silent! let @* = keepregstar
 silent! let @+ = keepregstar
 silent! let @/ = keepregslash
" call Dret("netrw#Explore")
 return
endif
let indx= w:netrw_explore_indx
if indx < 0 | let indx= 0 | endif
if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
let curfile= w:netrw_explore_list[indx]
" call Decho("indx=".indx." curfile<".curfile.">")
while indx < w:netrw_explore_listlen && curfile == w:netrw_explore_list[indx]
 let indx= indx + 1

```

```

" call Decho("indx=".indx." (Nexplore while loop)")
endwhile
if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
" call Decho("Nexplore: indx= [w:netrw_explore_indx=".w:netrw_explore_indx."]=".indx)

elseif indx == -2
" Pexplore
" call Decho("case Pexplore with starpat=".starpat." : (indx=".indx.")")
if !exists("w:netrw_explore_list") " sanity check
call netrw#ErrorMsg(s:WARNING,"using Pexplore or <s-up> improperly; see help for netrw-starstar",41)
silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
" call Dret("netrw#Explore")
return
endif
let indx= w:netrw_explore_indx
if indx < 0 | let indx= 0 | endif
if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
let curfile= w:netrw_explore_list[indx]
" call Decho("indx=".indx." curfile<".curfile.">")
while indx >= 0 && curfile == w:netrw_explore_list[indx]
let indx= indx - 1
" call Decho("indx=".indx." (Pexplore while loop)")
endwhile
if indx < 0 | let indx= 0 | endif
" call Decho("Pexplore: indx= [w:netrw_explore_indx=".w:netrw_explore_indx."]=".indx)

else
" Explore -- initialize
" build list of files to Explore with Nexplore/Pexplore
" call Decho("starpat=".starpat." : case Explore: initialize (indx=".indx.")")
let w:netrw_explore_indx= 0
if !exists("b:netrw_curdir")
let b:netrw_curdir= getcwd()
endif
" call Decho("starpat=".starpat." : b:netrw_curdir<".b:netrw_curdir.">")

" switch on starpat to build the w:netrw_explore_list of files
if starpat == 1
" starpat=1: Explore */pattern (current directory only search for files containing pattern)
" call Decho("starpat=".starpat." : build */pattern list")
" call Decho("pattern<".pattern.">")
exe "vimgrep /".pattern."/gj ".fnameescape(b:netrw_curdir)."/*"
let w:netrw_explore_list = map(getqflist(), 'bufname(v:val.bufnr)')
if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif

elseif starpat == 2

```

```

" starpat=2: Explore **//pattern (recursive descent search for files containing pattern)
" call Decho("starpat=".starpat.": build **//pattern list")
try
 exe "silent vimgrep /".pattern."/gj ".**/*"
catch /^Vim\%((\a\+)\)\|=E480/
 call netrw#ErrorMsg(s:WARNING,'no files matched pattern<'.pattern.'>',45)
 if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif
 silent! let @* = keepregstar
 silent! let @+ = keepregstar
 silent! let @/ = keepregslash
" call Dret("netrw#Explore : no files matched pattern")
 return
endtry
let s:netrw_curdir = b:netrw_curdir
let w:netrw_explore_list = getqflist()
let w:netrw_explore_list = map(w:netrw_explore_list,'s:netrw_curdir.'/.bufname(v:val.bufnr))

elseif starpat == 3
" starpat=3: Explore */filepat (search in current directory for filenames matching filepat)
" call Decho("starpat=".starpat.": build */filepat list")
let filepat= substitute(dirname,'*/*',",")
let filepat= substitute(filepat,'^[%#<]',"\&',"")
" call Decho("b:netrw_curdir<" .b:netrw_curdir.">")
" call Decho("filepat<" .filepat.">")
let w:netrw_explore_list= split(expand(b:netrw_curdir.'/' .filepat),'\n')
if &hls | let keepregslash= s:ExplorePatHls(filepat) | endif

elseif starpat == 4
" starpat=4: Explore **/filepat (recursive descent search for filenames matching filepat)
" call Decho("starpat=".starpat.": build **/filepat list")
let w:netrw_explore_list= split(expand(b:netrw_curdir.'/' .dirname),'\n')
if &hls | let keepregslash= s:ExplorePatHls(dirname) | endif
endif " switch on starpat to build w:netrw_explore_list

let w:netrw_explore_listlen = len(w:netrw_explore_list)
" call Decho("w:netrw_explore_list<" .string(w:netrw_explore_list).">")
" call Decho("w:netrw_explore_listlen=" .w:netrw_explore_listlen)

if w:netrw_explore_listlen == 0 || (w:netrw_explore_listlen == 1 && w:netrw_explore_list[0] =~ **\|)
 call netrw#ErrorMsg(s:WARNING,"no files matched",42)
 silent! let @* = keepregstar
 silent! let @+ = keepregstar
 silent! let @/ = keepregslash
" call Dret("netrw#Explore : no files matched")
 return
endif
endif " if indx ... endif

```

```

" NetrwStatusLine support - for exploring support
let w:netrw_explore_indx= indx
" call Decho("explorelist<" . join(w:netrw_explore_list, ',') . "> len=" . w:netrw_explore_listlen)

" wrap the indx around, but issue a note
if indx >= w:netrw_explore_listlen || indx < 0
" call Decho("wrap indx (indx=" . indx . " listlen=" . w:netrw_explore_listlen . ")")
let indx = (indx < 0)? (w:netrw_explore_listlen - 1) : 0
let w:netrw_explore_indx= indx
call netrw#ErrorMsg(s:NOTE,"no more files match Explore pattern",43)
endif

exe "let dirfile= w:netrw_explore_list[" . indx . "]"
" call Decho("dirfile=w:netrw_explore_list[indx=" . indx . "]= <" . dirfile . ">")
let newdir= substitute(dirfile, '/[^\/*$]', '', 'e')
" call Decho("newdir<" . newdir . ">")

" call Decho("calling LocalBrowseCheck(newdir<" . newdir . ">")")
call netrw#LocalBrowseCheck(newdir)
if !exists("w:netrw_liststyle")
let w:netrw_liststyle= g:netrw_liststyle
endif
if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:LONGLIST
call search('^'.substitute(dirfile, "\^.*"/, "", "").'\>', "W")
else
call search('\<'.substitute(dirfile, "\^.*"/, "", "").'\>', "w")
endif
let w:netrw_explore_mtchcnt = indx + 1
let w:netrw_explore_bufnr = bufnr("%")
let w:netrw_explore_line = line(".")
call s:SetupNetrwStatusLine('%f %h%m%r%=%9*% {NetrwStatusLine()}')
" call Decho("explore: mtchcnt=" . w:netrw_explore_mtchcnt . " bufnr=" . w:netrw_explore_bufnr . "
line#" . w:netrw_explore_line)

else
" call Decho("your vim does not have +path_extra")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"your vim needs the +path_extra feature for Exploring with **!",44)
endif
silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
" call Dret("netrw#Explore : missing +path_extra")
return
endif

else
" call Decho("case Explore newdir<" . dirname . ">")

```



```

if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && dirname =~ '/'
 silent! unlet w:netrw_treedict
 silent! unlet w:netrw_treetop
endif
let newdir= dirname
if !exists("b:netrw_curdir")
 call netrw#LocalBrowseCheck(getcwd())
else
 call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,newdir))
endif
endif

" visual display of **/ **// */ Exploration files
if exists("w:netrw_explore_indx") && exists("b:netrw_curdir")
if !exists("s:explore_prvdir") || s:explore_prvdir != b:netrw_curdir
 " only update match list if current directory isn't the same as before
 let s:explore_prvdir = b:netrw_curdir
 let s:explore_match = ""
 let dirlen = strlen(b:netrw_curdir)
 if b:netrw_curdir !~ '/'$'
 let dirlen= dirlen + 1
 endif
 let prvfname= ""
 for fname in w:netrw_explore_list
" call Decho("fname<".fname.">")
"COMBAK -- g:netrw_markfileesc.""g:netrw_markfileesc."" ???
 if fname =~ '^'.b:netrw_curdir
 if s:explore_match == ""
 let s:explore_match= '\<'.escape(strpart(fname,dirlen),g:netrw_markfileesc).\>'
 else
 let s:explore_match= s:explore_match.\|\<'.escape(strpart(fname,dirlen),g:netrw_markfileesc).\>'
 endif
 elseif fname !~ '^/' && fname != prvfname
 if s:explore_match == ""
 let s:explore_match= '\<'.escape(fname,g:netrw_markfileesc).\>'
 else
 let s:explore_match= s:explore_match.\|\<'.escape(fname,g:netrw_markfileesc).\>'
 endif
 endif
 let prvfname= fname
 endfor
" call Decho("explore_match<".s:explore_match.">")
 exe "2match netrwMarkFile /".s:explore_match."/\"
 endif
 echo "<s-up>==Pexplore <s-down>==Nexplore"
 else
 2match none
 if exists("s:explore_match") | unlet s:explore_match | endif

```

```

if exists("s:explore_prvdir") | unlet s:explore_prvdir | endif
echo " "
" call Decho("cleared explore match list")
endif

silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
" call Dret("netrw#Explore : @/<".@/.">")
endfun

" -----
" s:NetrwHide: this function is invoked by the "a" map for browsing {{{2
" and switches the hiding mode. The actual hiding is done by
" s:NetrwListHide().
" g:netrw_hide= 0: show all
" 1: show not-hidden files
" 2: show hidden files only
fun! s:NetrwHide(islocal)
" call Dfunc("NetrwHide(islocal=".a:islocal.") g:netrw_hide=".g:netrw_hide)
let svpos= netrw#NetrwSavePosn()

if exists("s:netrwmarkfilelist_{bufnr('%')}")
" call Decho(((g:netrw_hide == 1)? "unhide" : "hide")." files in
markfilelist<".string(s:netrwmarkfilelist_{bufnr("%")}).">")
" call Decho("g:netrw_list_hide<".g:netrw_list_hide.">")

" hide the files in the markfile list
for fname in s:netrwmarkfilelist_{bufnr("%")}
" call Decho("match(g:netrw_list_hide<".g:netrw_list_hide.">
fname<<'.fname.\>>='.match(g:netrw_list_hide,\<'.fname.\>')." isk=".&isk)
if match(g:netrw_list_hide,\<'.fname.\>) != -1
" remove fname from hiding list
let g:netrw_list_hide= substitute(g:netrw_list_hide,'\<'.escape(fname,g:netrw_fname_escape).\>.:',';")
let g:netrw_list_hide= substitute(g:netrw_list_hide,',,',';g')
let g:netrw_list_hide= substitute(g:netrw_list_hide,'^,\|,$',';")
" call Decho("unhide: g:netrw_list_hide<".g:netrw_list_hide.">")
else
" append fname to hiding list
if exists("g:netrw_list_hide") && g:netrw_list_hide != ""
let g:netrw_list_hide= g:netrw_list_hide.',\<'.escape(fname,g:netrw_fname_escape).\>'
else
let g:netrw_list_hide= '\<'.escape(fname,g:netrw_fname_escape).\>'
endif
endif
" call Decho("hide: g:netrw_list_hide<".g:netrw_list_hide.">")
endif
endfor
call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)

```

```

let g:netrw_hide= 1

else

" switch between show-all/show-not-hidden/show-hidden
let g:netrw_hide=(g:netrw_hide+1)%3
exe "norm! 0"
if g:netrw_hide && g:netrw_list_hide == ""
 call netrw#ErrorMsg(s:WARNING,"your hiding list is empty!",49)
" call Dret("NetrwHide")
 return
endif
endif

call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
" call Dret("NetrwHide")
endfun

" -----
" s:NetrwHidden: invoked by "gh" {{{2
fun! s:NetrwHidden(islocal)
" call Dfunc("s:NetrwHidden()")
" save current position
let svpos= netrw#NetrwSavePosn()

if g:netrw_list_hide =~ \(^\|,\|)\|(\^\\|\\s\\s\\)\|zs\|.\|S\|+'
" remove pattern from hiding list
let g:netrw_list_hide= substitute(g:netrw_list_hide, \(^\|,\|)\|(\^\\|\\s\\s\\)\|zs\|.\|S\|+',,")
elseif strlen(g:netrw_list_hide) >= 1
let g:netrw_list_hide= g:netrw_list_hide . ', \(^\|s\|s\)\|zs\|.\|S\|+'
else
let g:netrw_list_hide= \(^\|s\|s\)\|zs\|.\|S\|+'
endif

" refresh screen and return to saved position
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
" call Dret("s:NetrwHidden")
endfun

" -----
" s:NetrwHome: this function determines a "home" for saving bookmarks and history {{{2
fun! s:NetrwHome()
" call Dfunc("s:NetrwHome()")
if exists("g:netrw_home")
let home= g:netrw_home
else

```

```

" go to vim plugin home
for home in split(&rtp,',') + [""]
if isdirectory(home) && filewritable(home) | break | endif
 let basehome= substitute(home,'[^\]\.vim$',"")
if isdirectory(basehome) && filewritable(basehome)
 let home= basehome."/.vim"
 break
endif
endfor
if home == ""
 " just pick the first directory
" call Decho("just pick first directory in &rtp")
 let home= substitute(&rtp,','.*$',"")
endif
if (has("win32") || has("win95") || has("win64") || has("win16"))
 let home= substitute(home,','.\',\'g')
endif
endif
" insure that the home directory exists
" call Decho("picked home<".home.">")
if !isdirectory(home)
if exists("g:netrw_mkdir")
" call Decho("home<".home."> isn't a directory -- making it now with g:netrw_mkdir<".g:netrw_mkdir.">")
" call Decho("system("g:netrw_mkdir." ".s:Escape(home).")")
call system(g:netrw_mkdir." ".s:Escape(home))
else
" call Decho("home<".home."> isn't a directory -- making it now with mkdir()")
call mkdir(home)
endif
endif
let g:netrw_home= home
" call Dret("s:NetrwHome <".home.">")
return home
endfun

" -----
" s:NetrwLeftmouse: handles the <leftmouse> when in a netrw browsing window {{{2
fun! s:NetrwLeftmouse(islocal)
" call Dfunc("s:NetrwLeftmouse(islocal=".a:islocal.")")
if a:islocal
if exists("b:netrw_curdir")
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
endif
else
if exists("b:netrw_curdir")
call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
endif
endif
endfun

```

```

" call Dret("s:NetrwLeftmouse")
endfun

" -----
" s:NetrwListHide: uses [range]g~...~d to delete files that match comma {{{2
" separated patterns given in g:netrw_list_hide
fun! s:NetrwListHide()
" call Dfunc("NetrwListHide() hide=" .g:netrw_hide." listhide<" .g:netrw_list_hide.">")

" find a character not in the "hide" string to use as a separator for :g and :v commands
" How-it-works: take the hiding command, convert it into a range. Duplicate
" characters don't matter. Remove all such characters from the '/~...90'
" string. Use the first character left as a separator character.
let listhide= g:netrw_list_hide
let sep = strpart(substitute('/~@#$$%^&{*};:,<.>?!1234567890','[.escape(listhide,-]^\').'],'ge'),1,1)
" call Decho("sep=" .sep)

while listhide != ""
if listhide =~ ','
let hide = substitute(listhide,','*$',','e')
let listhide = substitute(listhide,^\{-},\{.*\}$,'\1',e')
else
let hide = listhide
let listhide = ""
endif

" Prune the list by hiding any files which match
if g:netrw_hide == 1
" call Decho("hiding<".hide."> listhide<".listhide.">")
exe 'silent keepjumps '.w:netrw_bannercnt.','$g'.sep.hide.sep.'d'
elseif g:netrw_hide == 2
" call Decho("showing<".hide."> listhide<".listhide.">")
exe 'silent keepjumps '.w:netrw_bannercnt.','$g'.sep.hide.sep.'s^@@ /-KEEP-/ @'
endif
endwhile
if g:netrw_hide == 2
exe 'silent keepjumps '.w:netrw_bannercnt.','$v^@ /-KEEP-/ @d'
exe 'silent keepjumps '.w:netrw_bannercnt.','$s^@\%(/-KEEP-/ \)|+@@@e'
endif

" call Dret("NetrwListHide")
endfun

" -----
" NetrwHideEdit: allows user to edit the file/directory hiding list
fun! s:NetrwHideEdit(islocal)
" call Dfunc("NetrwHideEdit(islocal=" .a:islocal."")

```

```

" save current cursor position
let svpos= netrw#NetrwSavePosn()

" get new hiding list from user
call inputsave()
let newhide= input("Edit Hiding List: ",g:netrw_list_hide)
call inputrestore()
let g:netrw_list_hide= newhide
" call Decho("new g:netrw_list_hide<"g:netrw_list_hide.">")

" refresh the listing
silent call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,"./"))

" restore cursor position
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetrwHideEdit")
endfun

" -----
" NetSortSequence: allows user to edit the sorting sequence
fun! s:NetSortSequence(islocal)
" call Dfunc("NetSortSequence(islocal="a:islocal.")")

let svpos= netrw#NetrwSavePosn()
call inputsave()
let newsortseq= input("Edit Sorting Sequence: ",g:netrw_sort_sequence)
call inputrestore()

" refresh the listing
let g:netrw_sort_sequence= newsortseq
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetSortSequence")
endfun

" -----
" s:NetrwMakeDir: this function makes a directory (both local and remote) {{{2
fun! s:NetrwMakeDir(usrhost)
" call Dfunc("NetrwMakeDir(usrhost<"a:usrhost.">")

" get name of new directory from user. A bare <CR> will skip.
" if its currently a directory, also request will be skipped, but with
" a message.
call inputsave()
let newdirname= input("Please give directory name: ")
call inputrestore()

```

```

" call Decho("newdirname<".newdirname.">")

if newdirname == ""
" call Dret("NetrwMakeDir : user aborted with bare <cr>")
return
endif

if a:usrhost == ""
" call Decho("local mkdir")

" Local mkdir:
" sanity checks
let fullnewdir= b:netrw_curdir.'/'.newdirname
" call Decho("fullnewdir<".fullnewdir.">")
if isdirectory(fullnewdir)
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"<".newdirname."> is already a directory!",24)
endif
" call Dret("NetrwMakeDir : directory<".newdirname."> exists previously")
return
endif
if s:FileReadable(fullnewdir)
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:WARNING,"<".newdirname."> is already a file!",25)
endif
" call Dret("NetrwMakeDir : file<".newdirname."> exists previously")
return
endif

" requested new local directory is neither a pre-existing file or
" directory, so make it!
if exists("*mkdir")
call mkdir(fullnewdir,"p")
else
let netrw_origdir= s:NetrwGetcwd(1)
exe 'keepjumps lcd '.fnameescape(b:netrw_curdir)
" call Decho("netrw_origdir<".netrw_origdir.">: lcd b:netrw_curdir<".fnameescape(b:netrw_curdir).">")
" call Decho("exe silent! !".g:netrw_local_mkdir.' '.shellescape(newdirname,1))
exe "silent! !".g:netrw_local_mkdir.' '.shellescape(newdirname,1)
if !g:netrw_keepdir
exe 'keepjumps lcd '.fnameescape(netrw_origdir)
" call Decho("netrw_keepdir="'.g:netrw_keepdir.': keepjumps lcd '.fnameescape(netrw_origdir)."
getcwd<".getcwd().">")
endif
endif

if v:shell_error == 0
" refresh listing

```

```

" call Decho("refresh listing")
let svpos= netrw#NetrwSavePosn()
call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'./'))
call netrw#NetrwRestorePosn(svpos)
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"unable to make directory<".newdirname.">",26)
endif
" redraw!

elseif !exists("b:netrw_method") || b:netrw_method == 4
" Remote mkdir:
" call Decho("remote mkdir")
let mkdircmd = s:MakeSshCmd(g:netrw_mkdir_cmd)
let newdirname= substitute(b:netrw_curdir,'^\%(.\{-}\)\{3}\(.*\)$','1',").newdirname
" call Decho("exe silent! !" .mkdircmd." ".shellescape(newdirname,1))
exe "silent! !" .mkdircmd." ".shellescape(newdirname,1)
if v:shell_error == 0
" refresh listing
let svpos= netrw#NetrwSavePosn()
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'./'))
call netrw#NetrwRestorePosn(svpos)
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"unable to make directory<".newdirname.">",27)
endif
" redraw!

elseif b:netrw_method == 2
" COMBAK -- future work
call netrw#ErrorMsg(s:ERROR,"making directories via ftp not currently supported",68)
elseif b:netrw_method == 3
" COMBAK -- future work
call netrw#ErrorMsg(s:ERROR,"making directories via ftp not currently supported",68)
endif

" call Dret("NetrwMakeDir")
endfun

" -----
" s:NetrwMarkFile: (invoked by mf) This function is used to both {{2
" mark and unmark files. If a markfile list exists,
" then the rename and delete functions will use it instead
" of whatever may happen to be under the cursor at that
" moment. When the mouse and gui are available,
" shift-leftmouse may also be used to mark files.
"
" Creates two lists
" s:netrwmarkfilelist -- holds complete paths to all marked files
" s:netrwmarkfilelist_# -- holds list of marked files in current-buffer's directory (##=bufnr())

```



```

"
" Creates a marked file match string
" s:netrwmarkfilemtch_# -- used with 2match to display marked files
"
" Creates a buffer version of islocal
" b:netrw_islocal
"
fun! s:NetrwMarkFile(islocal,fname)
" call Dfunc("s:NetrwMarkFile(islocal=".a:islocal." fname<"a:fname.">)")
let curbufnr= bufnr("%")
let curdir = b:netrw_curdir
if exists("s:netrwmarkfilelist_{curbufnr}")
" markfile list exists
" call Decho("starting s:netrwmarkfilelist_{curbufnr}<".string(s:netrwmarkfilelist_{curbufnr}).">")
" call Decho("starting s:netrwmarkfilemtch_{curbufnr}<".s:netrwmarkfilemtch_{curbufnr}.">")
let b:netrw_islocal= a:islocal

if index(s:netrwmarkfilelist_{curbufnr},a:fname) == -1
" append filename to buffer's markfilelist
" call Decho("append filename<"a:fname."> to local
markfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
call add(s:netrwmarkfilelist_{curbufnr},a:fname)
let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.\|<'escape(a:fname,g:netrw_markfileesc.''''.g:netrw_markfileesc.'''').\>'

else
" remove filename from buffer's markfilelist
" call Decho("remove filename<"a:fname."> from local
markfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
call filter(s:netrwmarkfilelist_{curbufnr},'v:val != a:fname')
if s:netrwmarkfilelist_{curbufnr} == []
" local markfilelist is empty; remove it entirely
" call Decho("markfile list now empty")
call s:NetrwUnmarkList(curbufnr,curdir)
else
" rebuild match list to display markings correctly
" call Decho("rebuild s:netrwmarkfilemtch_".curbufnr)
let s:netrwmarkfilemtch_{curbufnr}= ""
let first = 1
for fname in s:netrwmarkfilelist_{curbufnr}
if first
let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.\|<'escape(fname,g:netrw_markfileesc.''''.g:netrw_markfileesc.'''').\>'
else
let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.\|<'escape(fname,g:netrw_markfileesc.''''.g:netrw_markfileesc.'''').\>'
endif
let first= 0

```

```

 endfor
" call Decho("ending s:netrwmarkfilelist_"curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
" call Decho("ending s:netrwmarkfilemtch_"curbufnr."<".s:netrwmarkfilemtch_{curbufnr}).">")
 endif
endif

else
" initialize new markfilelist

" call Decho("add fname<"a:fname."> to new markfilelist_"curbufnr)
let s:netrwmarkfilelist_{curbufnr}= []
call add(s:netrwmarkfilelist_{curbufnr},a:fname)
" call Decho("ending s:netrwmarkfilelist_"curbufnr"<".string(s:netrwmarkfilelist_{curbufnr}).">")

" build initial markfile matching pattern
if a:fname =~ '/'$'
 let s:netrwmarkfilemtch_{curbufnr}= '\<'.escape(a:fname,g:netrw_markfileesc)
else
 let s:netrwmarkfilemtch_{curbufnr}= '\<'.escape(a:fname,g:netrw_markfileesc).\>'
endif
" call Decho("ending s:netrwmarkfilemtch_"curbufnr."<".s:netrwmarkfilemtch_{curbufnr}).">")
endif

" handle global markfilelist
if exists("s:netrwmarkfilelist")
 let dname= s:ComposePath(b:netrw_curdir,a:fname)
 if index(s:netrwmarkfilelist,dname) == -1
 " append new filename to global markfilelist
 call add(s:netrwmarkfilelist,s:ComposePath(b:netrw_curdir,a:fname))
 " call Decho("append filename<"a:fname."> to global markfilelist<".string(s:netrwmarkfilelist).">")
 else
 " remove new filename from global markfilelist
 " call Decho("filter(".string(s:netrwmarkfilelist).",'v:val !='.'"dname.")")
 call filter(s:netrwmarkfilelist,'v:val !='.'"dname."'")
 " call Decho("ending s:netrwmarkfilelist <".string(s:netrwmarkfilelist).">")
 if s:netrwmarkfilelist == []
 unlet s:netrwmarkfilelist
 endif
 endif
else
" initialize new global-directory markfilelist
let s:netrwmarkfilelist= []
call add(s:netrwmarkfilelist,s:ComposePath(b:netrw_curdir,a:fname))
" call Decho("init s:netrwmarkfilelist<".string(s:netrwmarkfilelist).">")
endif

" set up 2match'ing to netrwmarkfilemtch list
if exists("s:netrwmarkfilemtch_{curbufnr}") && s:netrwmarkfilemtch_{curbufnr} != ""

```

```

" call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{curbufnr}."/")
exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{curbufnr}."/
else
" call Decho("2match none")
2match none
endif
" call Dret("s:NetrwMarkFile : netrwmarkfilelist_".curbufnr."<".(exists("s:netrwmarkfilelist_{curbufnr}")?
string(s:netrwmarkfilelist_{curbufnr}) : " doesn't exist").">")
endfun

" -----
" s:NetrwMarkFileCompress: (invoked by mz) This function is used to {{{2
" compress/decompress files using the programs
" in g:netrw_compress and g:netrw_uncompress,
" using g:netrw_compress_suffix to know which to
" do. By default:
" g:netrw_compress = "gzip"
" g:netrw_decompress = { ".gz" : "gunzip" , ".bz2" : "bunzip2" , ".zip" : "unzip" , ".tar" : "tar -
xf" }
fun! s:NetrwMarkFileCompress(islocal)
" call Dfunc("s:NetrwMarkFileCompress(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist_{curbufnr}") && exists("g:netrw_compress") && exists("g:netrw_decompress")
for fname in s:netrwmarkfilelist_{curbufnr}
" for every filename in the marked list
for sfx in sort(keys(g:netrw_decompress))
if fname =~ '\.sfx.$'
" fname has a suffix indicating that its compressed; apply associated decompression routine
let exe= s:WinPath(g:netrw_decompress[sfx])
" call Decho("fname<".fname."> is compressed so decompress with <".exe.">")
if a:islocal
if g:netrw_keepdir
let fname= shellescape(s:ComposePath(curdir,fname))
endif
else
let fname= shellescape(b:netrw_curdir.fname,1)
endif
if executable(exe)
if a:islocal
call system(exe." ".fname)
else
call s:RemoteSystem(exe." ".fname)
endif
else
call netrw#ErrorMsg(s:WARNING,"unable to apply<".exe."> to file<".fname.">",50)

```

```

endif
break
endif
endfor
if exists("exe")
 unlet exe
elseif a:islocal
 " fname not a compressed file, so compress it
 call system(s:WinPath(g:netrw_compress)." ".shellescape(s:ComposePath(b:netrw_curdir,fname)))
else
 " fname not a compressed file, so compress it
 call s:RemoteSystem(s:WinPath(g:netrw_compress)." ".shellescape(fname))
endif
endfor
call s:NetrwUnmarkList(curbufnr,curdir)
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)
endif
" call Dret("s:NetrwMarkFileCompress")
endfun

" -----
" s:NetrwMarkFileCopy: (invoked by mc) copy marked files to target {{2
" If no marked files, then set up directory as the
" target. Currently does not support copying entire
" directories. Uses the local-buffer marked file list.
" Returns 1=success (used by NetrwMarkFileMove())
" 0=failure
fun! s:NetrwMarkFileCopy(islocal)
" call Dfunc("s:NetrwMarkFileCopy(islocal=" .a:islocal.") target<".(exists("s:netrwmtgt")? s:netrwmtgt : '---').">")

" sanity checks
if !exists("s:netrwmarkfilelist_{bufnr('%')}") || empty(s:netrwmarkfilelist_{bufnr('%')})
 call netrw#ErrorMsg(2,"there are no marked files in this window (:help netrw-mf)",66)
" call Dret("s:NetrwMarkFileCopy 0")
 return 0
endif
" call Decho("sanity chk passed: s:netrwmarkfilelist_".bufnr('%')." <".string(s:netrwmarkfilelist_{bufnr('%')})")
if !exists("s:netrwmtgt")
 call netrw#ErrorMsg(2,"your marked file target is empty! (:help netrw-mt)",67)
" call Dret("s:NetrwMarkFileCopy 0")
 return 0
endif
" call Decho("sanity chk passed: s:netrwmtgt<".s:netrwmtgt.">")
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if a:islocal && s:netrwmtgt_islocal

```

```

" Copy marked files, local directory to local directory
" call Decho("copy from local to local")
let args= join(map(deepcopy(s:netrwmarkfilelist_{bufnr('%')}),"shellescape(b:netrw_curdir.\\"^".v:val)"))
" call Decho("system(".g:netrw_localcopycmd." ".args." ".shellescape(s:netrw_mftgt).")")
call system(s:WinPath(g:netrw_localcopycmd)." ".args." ".shellescape(s:netrw_mftgt))

elseif a:islocal && !s:netrw_mftgt_islocal
" Copy marked files, local directory to remote directory
" call Decho("copy from local to remote")
call s:NetrwUpload(s:netrwmarkfilelist_{bufnr('%')},s:netrw_mftgt)

elseif !a:islocal && s:netrw_mftgt_islocal
" call Decho("copy from remote to local")
call netrw#NetrwObtain(a:islocal,s:netrwmarkfilelist_{bufnr('%')},s:netrw_mftgt)

elseif !a:islocal && !s:netrw_mftgt_islocal
" call Decho("copy from remote to remote")
let curdir = getcwd()
let tmpdir = s:GetTempfile("")
if tmpdir !~ '/'
let tmpdir= curdir."/".tmpdir
endif
if exists("*mkdir")
call mkdir(tmpdir)
else
exe "silent !".g:netrw_local_mkdir.' '.shellescape(tmpdir,1)
endif
if isdirectory(tmpdir)
exe "keepjumps lcd ".fnameescape(tmpdir)
call netrw#NetrwObtain(a:islocal,s:netrwmarkfilelist_{bufnr('%')},tmpdir)
let localfiles= map(deepcopy(s:netrwmarkfilelist_{bufnr('%')}),'substitute(v:val,"^.*"/,"", ""))
call s:NetrwUpload(localfiles,s:netrw_mftgt)
if getcwd() == tmpdir
for fname in s:netrwmarkfilelist_{bufnr('%')}
call s:NetrwDelete(fname)
endfor
exe "keepjumps lcd ".fnameescape(curdir)
exe "silent !".g:netrw_local_rmdir." ".shellescape(tmpdir,1)
else
exe "keepjumps lcd ".fnameescape(curdir)
endif
endif
endif

" -----
" cleanup
" -----
" call Decho("cleanup")

```

```

" remove markings from local buffer
call s:NetrwUnmarkList(curbufnr,curdir)

" refresh buffers
if !s:netrwmftgt_islocal
 call s:NetrwRefreshDir(s:netrwmftgt_islocal,s:netrwmftgt)
endif
if a:islocal
 call s:NetrwRefreshDir(a:islocal,b:netrw_curdir)
endif
if g:netrw_fastbrowse <= 1
 call s:LocalBrowseShellCmdRefresh()
endif

" call Dret("s:NetrwMarkFileCopy 1")
return 1
endfun

" -----
" s:NetrwMarkFileDiff: (invoked by md) This function is used to {{{2
" invoke vim's diff mode on the marked files.
" Either two or three files can be so handled.
" Uses the global marked file list.
fun! s:NetrwMarkFileDiff(islocal)
" call Dfunc("s:NetrwMarkFileDiff(islocal=".a:islocal.") b:netrw_curdir<".b:netrw_curdir.">")
let curbufnr= bufnr("%")

if exists("s:netrwmarkfilelist_{curbufnr}")
 let cnt = 0
 let curdir = b:netrw_curdir
 for fname in s:netrwmarkfilelist
 let cnt= cnt + 1
 if cnt == 1
" call Decho("diffthis: fname<".fname.">")
 exe "e ".fnameescape(fname)
 diffthis
 elseif cnt == 2 || cnt == 3
 vsplit
 wincmd l
" call Decho("diffthis: ".fname)
 exe "e ".fnameescape(fname)
 diffthis
 else
 break
 endif
 endfor
 call s:NetrwUnmarkList(curbufnr,curdir)

```

```

endif

" call Dret("s:NetrwMarkFileDiff")
endfun

" -----
" s:NetrwMarkFileEdit: (invoked by me) put marked files on arg list and start editing them {{{2
" Uses global markfilelist
fun! s:NetrwMarkFileEdit(islocal)
" call Dfunc("s:NetrwMarkFileEdit(islocal=".a:islocal.")")

let curdir = b:netrw_curdir
let curbufnr = bufnr("%")
if exists("s:netrwmarkfilelist_{curbufnr}")
call s:SetRexDir(a:islocal,curdir)
let flist= join(map(deepcopy(s:netrwmarkfilelist), "fnameescape(v:val)"))
" unmark markedfile list
" call s:NetrwUnmarkList(curbufnr,curdir)
call s:NetrwUnmarkAll()
" call Decho("exe silent args ".flist)
exe "silent args ".flist
endif

" call Dret("s:NetrwMarkFileEdit")
endfun

" -----
" s:NetrwMarkFileExe: (invoked by mx) execute arbitrary command on marked files, one at a time {{{2
" Uses the local marked-file list.
fun! s:NetrwMarkFileExe(islocal)
" call Dfunc("s:NetrwMarkFileExe(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist_{curbufnr}")
" get the command
call inputsave()
let cmd= input("Enter command: ", "", "file")
call inputrestore()
" call Decho("cmd<".cmd.">")

" apply command to marked files. Substitute: filename -> %
" If no %, then append a space and the filename to the command
for fname in s:netrwmarkfilelist_{curbufnr}
if a:islocal
if g:netrw_keepdir
let fname= shellescape(s:WinPath(s:ComposePath(curdir,fname)))

```

```

endif
else
let fname= shellescape(s:WinPath(b:netrw_curdir.fname))
endif
if cmd =~ '%'
let xcmd= substitute(cmd,'% ',fname,'g')
else
let xcmd= cmd.' '.fname
endif
if a:islocal
" call Decho("local: xcmd<".xcmd.">")
let ret= system(xcmd)
else
" call Decho("remote: xcmd<".xcmd.">")
let ret= s:RemoteSystem(xcmd)
endif
if v:shell_error < 0
call netrw#ErrorMsg(s:ERROR,"command<".xcmd."> failed, aborting",54)
break
else
echo ret
endif
endfor

" unmark marked file list
call s:NetrwUnmarkList(curbufnr,curdir)

" refresh the listing
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)
else
call netrw#ErrorMsg(s:ERROR,"no files marked!",59)
endif

" call Dret("s:NetrwMarkFileExe")
endfun

" -----
" s:NetrwMarkHideSfx: (invoked by mh) (un)hide files having same suffix
" as the marked file(s) (toggles suffix presence)
" Uses the local marked file list.
fun! s:NetrwMarkHideSfx(islocal)
" call Dfunc("s:NetrwMarkHideSfx(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curbufnr = bufnr("%")

" s:netrwmarkfilelist_{curbufnr}: the List of marked files
if exists("s:netrwmarkfilelist_{curbufnr}")

```



```

for fname in s:netrwmarkfilelist_{curbufnr}
" call Decho("s:NetrwMarkFileCopy: fname<".fname.">")
" construct suffix pattern
if fname =~ \.
let sfxpat= "^.*".substitute(fname,'^\.[^]+$','1,')
else
let sfxpat= '^%(\%(\.)\@!.)*$'
endif
" determine if its in the hiding list or not
let inhidelist= 0
if g:netrw_list_hide != ""
let itemnum = 0
let hidelist= split(g:netrw_list_hide,')
for hidepat in hidelist
if sfxpat == hidepat
let inhidelist= 1
break
endif
let itemnum= itemnum + 1
endfor
endif
" call Decho("fname<".fname."> inhidelist=" .inhidelist. " sfxpat<".sfxpat.">")
if inhidelist
" remove sfxpat from list
call remove(hidelist,itemnum)
let g:netrw_list_hide= join(hidelist,')
elseif g:netrw_list_hide != ""
" append sfxpat to non-empty list
let g:netrw_list_hide= g:netrw_list_hide.,".sfxpat
else
" set hiding list to sfxpat
let g:netrw_list_hide= sfxpat
endif
endif

" refresh the listing
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
else
call netrw#ErrorMsg(s:ERROR,"no files marked!",59)
endif

" call Dret("s:NetrwMarkHideSfx")
endfun

" -----
" s:NetrwMarkFileGrep: (invoked by mg) This function applies vimgrep to marked files {{{2

```

```

" Uses the global markfilelist
fun! s:NetrwMarkFileGrep(islocal)
" call Dfunc("s:NetrwMarkFileGrep(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist")
" call Decho("s:netrwmarkfilelist".string(s:netrwmarkfilelist).">")
let netrwmarkfilelist= join(map(deepcopy(s:netrwmarkfilelist), "fnameescape(v:val)"))
call s:NetrwUnmarkAll()

" ask user for pattern
call inputsave()
let pat= input("Enter pattern: ","")
call inputrestore()
if pat !~ '\s'
if pat !~ '^/'
let pat= '/.pat.'
endif
let pat= " ".pat
endif

" use vimgrep for both local and remote
" call Decho("exe vimgrep".pat." ".netrwmarkfilelist)
exe "vimgrep".pat." ".netrwmarkfilelist

2match none
call netrw#NetrwRestorePosn(svpos)
endif

" call Dret("s:NetrwMarkFileGrep")
endfun

" -----
" s:NetrwMarkFileMove: (invoked by mm) execute arbitrary command on marked files, one at a time {{{2
" uses the global marked file list
" s:netrwmfloc= 0: target directory is remote
" = 1: target directory is local
fun! s:NetrwMarkFileMove(islocal)
" call Dfunc("s:NetrwMarkFileMove(islocal=".a:islocal.")")
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

" sanity check
if !exists("s:netrwmarkfilelist_{bufnr('%')}") || empty(s:netrwmarkfilelist_{bufnr('%')})
call netrw#ErrorMsg(2,"there are no marked files in this window (:help netrw-mf)",66)
" call Dret("s:NetrwMarkFileMove")
return

```

```

endif
" call Decho("sanity chk passed: s:netrwmarkfilelist_".bufnr("%")."<".string(s:netrwmarkfilelist_{bufnr("%)}))
if !exists("s:netrwmtgt")
 call netrw#ErrorMsg(2,"your marked file target is empty! (:help netrw-nt)",67)
" call Dret("s:NetrwMarkFileCopy 0")
return 0
endif
" call Decho("sanity chk passed: s:netrwmtgt<".s:netrwmtgt.">")

if a:islocal && s:netrwmtgt_islocal
 " move: local -> local
" call Decho("move from local to local")
" call Decho("(s:NetrwMarkFileMove) local to local move")
if executable(g:netrw_localmovecmd)
 for fname in s:netrwmarkfilelist_{bufnr("%")}
" call Decho("system(".g:netrw_localmovecmd." ".shellescape(fname)." ".shellescape(s:netrwmtgt).)")")
let ret= system(g:netrw_localmovecmd." ".shellescape(fname)." ".shellescape(s:netrwmtgt))
if v:shell_error < 0
 call netrw#ErrorMsg(s:ERROR,"command<".g:netrw_localmovecmd."> failed, aborting",54)
 break
endif
endif
endif
else
 call netrw#ErrorMsg(s:ERROR,"command<".g:netrw_localmovecmd."> is not executable!",57)
endif

elseif a:islocal && !s:netrwmtgt_islocal
 " move: local -> remote
" call Decho("move from local to remote")
" call Decho("copy")
let mflist= s:netrwmarkfilelist_{bufnr("%")}
call s:NetrwMarkFileCopy(a:islocal)
" call Decho("remove")
for fname in mflist
 let barefname = substitute(fname,'^(.*)\(\{-}\)$','\2,')
 let ok = s:NetrwLocalRmFile(b:netrw_curdir,barefname,1)
endif
unlet mflist

elseif !a:islocal && s:netrwmtgt_islocal
 " move: remote -> local
" call Decho("move from remote to local")
" call Decho("copy")
let mflist= s:netrwmarkfilelist_{bufnr("%")}
call s:NetrwMarkFileCopy(a:islocal)
" call Decho("remove")
for fname in mflist
 let barefname = substitute(fname,'^(.*)\(\{-}\)$','\2,')

```

```

let ok = s:NetrwRemoteRmFile(b:netrw_curdir,barefname,1)
endfor
unlet mflist

elseif !a:islocal && !s:netrw_mftgt_islocal
" move: remote -> remote
" call Decho("move from remote to remote")
" call Decho("copy")
let mflist= s:netrwmarkfilelist_{bufnr("%")}
call s:NetrwMarkFileCopy(a:islocal)
" call Decho("remove")
for fname in mflist
let barefname = substitute(fname,'^(.*)\\(\\{-}\\)$','\2,')
let ok = s:NetrwRemoteRmFile(b:netrw_curdir,barefname,1)
endfor
unlet mflist
endif

" -----
" cleanup
" -----
" call Decho("cleanup")

" remove markings from local buffer
call s:NetrwUnmarkList(curbufnr,curdir) " remove markings from local buffer

" refresh buffers
if !s:netrw_mftgt_islocal
call s:NetrwRefreshDir(s:netrw_mftgt_islocal,s:netrw_mftgt)
endif
if a:islocal
call s:NetrwRefreshDir(a:islocal,b:netrw_curdir)
endif
if g:netrw_fastbrowse <= 1
call s:LocalBrowseShellCmdRefresh()
endif

" call Dret("s:NetrwMarkFileMove")
endfun

" -----
" s:NetrwMarkFilePrint: (invoked by mp) This function prints marked files {{{2
" using the hardcopy command. Local marked-file list only.
fun! s:NetrwMarkFilePrint(islocal)
" call Dfunc("s:NetrwMarkFilePrint(islocal=".a:islocal.")")
let curbufnr= bufnr("%")
if exists("s:netrwmarkfilelist_{curbufnr}")
let netrwmarkfilelist = s:netrwmarkfilelist_{curbufnr}

```

```

let curdir = b:netrw_curdir
call s:NetrwUnmarkList(curbufnr,curdir)
for fname in netrwmarkfilelist
if a:islocal
if g:netrw_keepdir
let fname= s:ComposePath(curdir,fname)
endif
else
let fname= curdir.fname
endif
1split
" the autocmds will handle both local and remote files
" call Decho("exe silent e ".escape(fname,' '))
exe "silent e ".fnameescape(fname)
" call Decho("hardcopy")
hardcopy
q
endifor
2match none
endif
" call Dret("s:NetrwMarkFilePrint")
endfun

" -----
" s:NetrwMarkFileRegexp: (invoked by mr) This function is used to mark {{{2
" files when given a regexp (for which a prompt is
" issued).
fun! s:NetrwMarkFileRegexp(islocal)
" call Dfunc("s:NetrwMarkFileRegexp(islocal=".a:islocal.")")

" get the regular expression
call inputsave()
let regexp= input("Enter regexp: ", "", "file")
call inputrestore()

if a:islocal
" get the matching list of files using local glob()
" call Decho("handle local regexp")
let dirname = escape(b:netrw_curdir,g:netrw_glob_escape)
let filelist = glob(s:ComposePath(dirname,regexp))
if filelist != ""
let filelist= filelist."\n"
endif

" mark the list of files
while filelist != ""
if filelist =~ '\n'
let filename = substitute(filelist,'\n.*$',", 'e')

```

```

let filelist = substitute(filelist, '^.\{-}\n\(.*)$', '\1', 'e')
else
let filename = filelist
let filelist = ""
endif
" call Decho("filelist<".filelist.">")
" call Decho("filename<".filename.">")
call s:NetrwMarkFile(a:islocal, substitute(filename, '^.*/', ""))
endwhile

else
" call Decho("handle remote regexp")

" convert displayed listing into a filelist
let eikp = &ei
let areg = @a
silent %y a
set ei=all ma
" call Decho("set ei=all ma")
1split
enew
silent norm! "ap
2
let bannercnt= search('^" =====', 'W')
exe "silent 1, ".bannercnt."d"
set bt=nofile
if g:netrw_liststyle == s:LONGLIST
silent %s\s\{2,\}S.*$/e
elseif g:netrw_liststyle == s:WIDELIST
silent %s\s\{2,\}^r/ge
elseif g:netrw_liststyle == s:TREELIST
silent %s/^|//e
silent! g/^.*$/d
endif
" convert regexp into the more usual glob-style format
let regexp= substitute(regexp, '*', '*', 'g')
" call Decho("regexp<".regexp.">")
exe "silent! v/" .escape(regexp, '/') ."/d"
let filelist= getline(1, line("$"))
q!
for filename in filelist
call s:NetrwMarkFile(a:islocal, substitute(filename, '^.*/', ""))
endfor
unlet filelist
let @a = areg
let &ei = eikp
endif

```

```

" call Dret("s:NetrwMarkFileRegexp")
endfun

" -----
" s:NetrwMarkFileSource: (invoked by ms) This function sources marked files {{{2
" Uses the local marked file list.
fun! s:NetrwMarkFileSource(islocal)
" call Dfunc("s:NetrwMarkFileSource(islocal=".a:islocal.")")
let curbufnr= bufnr("%")
if exists("s:netrwmarkfilelist_{curbufnr}")
let netrwmarkfilelist = s:netrwmarkfilelist_{bufnr("%")}
let curdir = b:netrw_curdir
call s:NetrwUnmarkList(curbufnr,curdir)
for fname in netrwmarkfilelist
if a:islocal
if g:netrw_keepdir
let fname= s:ComposePath(curdir,fname)
endif
else
let fname= curdir.fname
endif
" the autocmds will handle sourcing both local and remote files
" call Decho("exe so ".fnameescape(fname))
exe "so ".fnameescape(fname)
endfor
2match none
endif
" call Dret("s:NetrwMarkFileSource")
endfun

" -----
" s:NetrwMarkFileTag: (invoked by mT) This function applies g:netrw_ctags to marked files {{{2
" Uses the global markfilelist
fun! s:NetrwMarkFileTag(islocal)
" call Dfunc("s:NetrwMarkFileTag(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let curbufnr = bufnr("%")

if exists("s:netrwmarkfilelist")
" call Decho("s:netrwmarkfilelist".string(s:netrwmarkfilelist.">")
let netrwmarkfilelist= join(map(deepcopy(s:netrwmarkfilelist), "shellescape(v:val, '!a:islocal.'"))
call s:NetrwUnmarkAll()

if a:islocal
if executable(g:netrw_ctags)
" call Decho("call system(".g:netrw_ctags." ".netrwmarkfilelist.")")
call system(g:netrw_ctags." ".netrwmarkfilelist)

```

```

else
 call netrw#ErrorMsg(s:ERROR,"g:netrw_ctags<".g:netrw_ctags."> is not executable!",51)
endif
else
 let cmd = s:RemoteSystem(g:netrw_ctags." ".netrwmarkfilelist)
 call netrw#NetrwObtain(a:islocal,"tags")
 let curdir= b:netrw_curdir
 1split
 e tags
 let path= substitute(curdir,'^\(.*\)\/[^\]*$','\1/',)
" call Decho("curdir<".curdir."> path<".path.">")
 exe '%s^\t(\S+)\t\t'.escape(path,"^n\r").'\1\t/e'
 wq!
endif
2match none
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'/'))
call netrw#NetrwRestorePosn(svpos)
endif

" call Dret("s:NetrwMarkFileTag")
endfun

" -----
" s:NetrwMarkFileTgt: (invoked by mt) This function sets up a marked file target {{{2
" Sets up two variables,
" s:netrwmftgt : holds the target directory
" s:netrwmftgt_islocal : 0=target directory is remote
" 1=target directory is local
fun! s:NetrwMarkFileTgt(islocal)
" call Dfunc("s:NetrwMarkFileTgt(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curdir = b:netrw_curdir
let hadtgt = exists("s:netrwmftgt")
if !exists("w:netrw_bannercnt")
 let w:netrw_bannercnt= b:netrw_bannercnt
endif

" set up target
if line(".") < w:netrw_bannercnt
 " if cursor in banner region, use b:netrw_curdir for the target
 let s:netrwmftgt= b:netrw_curdir
" call Decho("inbanner: s:netrwmftgt<".s:netrwmftgt.">")

else
 " get word under cursor.
 " * If directory, use it for the target.
 " * If file, use b:netrw_curdir for the target
 let curword= s:NetrwGetWord()

```



```

let tgtDir = s:ComposePath(curDir,curWord)
if a:islocal && isdirectory(tgtDir)
 let s:netrwMftgt = tgtDir
" call Decho("local isdir: s:netrwMftgt<".s:netrwMftgt.">")
elseif !a:islocal && tgtDir =~ '/'$
 let s:netrwMftgt = tgtDir
" call Decho("remote isdir: s:netrwMftgt<".s:netrwMftgt.">")
else
 let s:netrwMftgt = curDir
" call Decho("isfile: s:netrwMftgt<".s:netrwMftgt.">")
endif
endif
if a:islocal
 " simplify the target (eg. /abc/def/../ghi -> /abc/ghi)
 let s:netrwMftgt= simplify(s:netrwMftgt)
" call Decho("simplify: s:netrwMftgt<".s:netrwMftgt.">")
endif
if g:netrw_cygwin
 let s:netrwMftgt= substitute(system("cygpath ".shellescape(s:netrwMftgt)),'\n$',"")
 let s:netrwMftgt= substitute(s:netrwMftgt,'\n$',"")
endif
let s:netrwMftgt_islocal= a:islocal

if g:netrw_fastbrowse <= 1
 call s:LocalBrowseShellCmdRefresh()
endif
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,!/.))
call netrw#NetrwRestorePosn(svpos)
if !hadTgt
 norm! j
endif

" call Dret("s:NetrwMarkFileTgt : netrwMftgt<".(exists("s:netrwMftgt")? s:netrwMftgt : "").">")
endfun

" -----
" s:NetrwOpenFile: query user for a filename and open it {{{2
fun! s:NetrwOpenFile(islocal)
" call Dfunc("s:NetrwOpenFile(islocal=".a:islocal.")")
call inputsave()
let fname= input("Enter filename: ")
call inputrestore()
if fname !~ '[\\]'
 if exists("b:netrw_curdir")
 if exists("g:netrw_quiet")
 let netrw_quiet_keep = g:netrw_quiet
 endif
 let g:netrw_quiet = 1

```

```

if b:netrw_curdir =~ '/'$'
 exe "e ".fnameescape(b:netrw_curdir.fname)
else
 exe "e ".fnameescape(b:netrw_curdir."/".fname)
endif
if exists("netrw_quiet_keep")
 let g:netrw_quiet= netrw_quiet_keep
else
 unlet g:netrw_quiet
endif
endif
else
 exe "e ".fnameescape(fname)
endif
" call Dret("s:NetrwOpenFile")
endfun

" -----
" s:NetrwUnmarkList: delete local marked file lists and remove their contents from the global marked-file list {{{2
fun! s:NetrwUnmarkList(curbufnr,curdir)
" call Dfunc("s:NetrwUnmarkList(curbufnr=".a:curbufnr." curdir<".a:curdir.">")")

" remove all files in local marked-file list from global list
if exists("s:netrwmarkfilelist_{a:curbufnr}")
for mfile in s:netrwmarkfilelist_{a:curbufnr}
 let dfile = s:ComposePath(a:curdir,mfile) " prepend directory to mfile
 let idx = index(s:netrwmarkfilelist,dfile) " get index in list of dfile
 call remove(s:netrwmarkfilelist,idx) " remove from global list
endfor
if s:netrwmarkfilelist == []
 unlet s:netrwmarkfilelist
endif

" getting rid of the local marked-file lists is easy
unlet s:netrwmarkfilelist_{a:curbufnr}
endif
if exists("s:netrwmarkfilemtch_{a:curbufnr}")
 unlet s:netrwmarkfilemtch_{a:curbufnr}
endif
2match none
" call Dret("s:NetrwUnmarkList")
endfun

" -----
" s:NetrwUnmarkAll: remove the global marked file list and all local ones {{{2
fun! s:NetrwUnmarkAll()
" call Dfunc("s:NetrwUnmarkAll()")
if exists("s:netrwmarkfilelist")

```

```

unlet s:netrwmarkfilelist
endif
silent call s:NetrwUnmarkAll2()
2match none
" call Dret("s:NetrwUnmarkAll")
endfun

" -----
" s:NetrwUnmarkAll2: {{{2
fun! s:NetrwUnmarkAll2()
" call Dfunc("s:NetrwUnmarkAll2()")
redir => netrwmarkfilelist_let
let
redir END
let netrwmarkfilelist_list= split(netrwmarkfilelist_let,'\n') " convert let string into a let list
call filter(netrwmarkfilelist_list,"v:val =~ '^s:netrwmarkfilelist_'" " retain only those vars that start as
s:netrwmarkfilelist_
call map(netrwmarkfilelist_list,"substitute(v:val, '\\s.*$',','')") " remove what the entries are equal to
for flist in netrwmarkfilelist_list
let curbufnr= substitute(flist,'s:netrwmarkfilelist_',','')
unlet s:netrwmarkfilelist_{curbufnr}
unlet s:netrwmarkfilemtch_{curbufnr}
endfor
" call Dret("s:NetrwUnmarkAll2")
endfun

" -----
" s:NetrwUnMarkFile: {{{2
fun! s:NetrwUnMarkFile(islocal)
" call Dfunc("s:NetrwUnMarkFile(islocal=".a:islocal.")")
let svpos = netrw#NetrwSavePosn()
let curbufnr = bufnr("%")

" unmark marked file list (although I expect s:NetrwUpload()
" to do it, I'm just making sure)
if exists("s:netrwmarkfilelist_{bufnr('%')}")
" call Decho("unlet'ing: s:netrwmarkfile[list|mtch]_".bufnr("%"))
unlet s:netrwmarkfilelist
unlet s:netrwmarkfilelist_{curbufnr}
unlet s:netrwmarkfilemtch_{curbufnr}
2match none
endif

" call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)
" call Dret("s:NetrwUnMarkFile")
endfun

```

```

" -----
" s:NetrwMenu: generates the menu for gvim and netrw {{{2
fun! s:NetrwMenu(domenu)

if !exists("g:NetrwMenuPriority")
 let g:NetrwMenuPriority= 80
endif

if has("menu") && has("gui_running") && &go =~ 'm' && g:netrw_menu
" call Dfunc("NetrwMenu(domenu=".a:domenu.")")

if !exists("s:netrw_menu_enabled") && a:domenu
" call Decho("initialize menu")
 let s:netrw_menu_enabled= 1
 exe 'silent! menu .g:NetrwMenuPriority.'.1 '.g:NetrwTopLvlMenu.'Help<tab><<F1> <F1>'
 exe 'silent! menu .g:NetrwMenuPriority.'.5 '.g:NetrwTopLvlMenu.'-Sep1- : '
 exe 'silent! menu .g:NetrwMenuPriority.'.6 '.g:NetrwTopLvlMenu.'Go\ Up\ Directory<tab>- -'
 exe 'silent! menu .g:NetrwMenuPriority.'.7 '.g:NetrwTopLvlMenu.'Apply\ Special\ Viewer<tab>x x'
 exe 'silent! menu .g:NetrwMenuPriority.'.8.1 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Bookmark\
Current\ Directory<tab>mb mb'
 exe 'silent! menu .g:NetrwMenuPriority.'.8.4 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Goto\ Prev\ Dir\
(History)<tab>u u'
 exe 'silent! menu .g:NetrwMenuPriority.'.8.5 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Goto\ Next\ Dir\
(History)<tab>U U'
 exe 'silent! menu .g:NetrwMenuPriority.'.8.6 '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.List<tab>qb qb'
 exe 'silent! menu .g:NetrwMenuPriority.'.9.1 '.g:NetrwTopLvlMenu.'Browsing\ Control.Edit\ File\ Hiding\
List<tab><<ctrl-h>.' \<c-h>'
 exe 'silent! menu .g:NetrwMenuPriority.'.9.2 '.g:NetrwTopLvlMenu.'Browsing\ Control.Edit\ Sorting\
Sequence<tab>S S'
 exe 'silent! menu .g:NetrwMenuPriority.'.9.3 '.g:NetrwTopLvlMenu.'Browsing\ Control.Quick\ Hide/Unhide\
Dot\ Files<tab>.' "gh gh"
 exe 'silent! menu .g:NetrwMenuPriority.'.9.4 '.g:NetrwTopLvlMenu.'Browsing\ Control.Refresh\
Listing<tab>.' "<ctrl-l> \<c-l>"
 exe 'silent! menu .g:NetrwMenuPriority.'.9.5 '.g:NetrwTopLvlMenu.'Browsing\
Control.Settings/Options<tab>:NetrwSettings ':NetrwSettings<cr>'
 exe 'silent! menu .g:NetrwMenuPriority.'.10 '.g:NetrwTopLvlMenu.'Delete\ File/Directory<tab>D D'
 exe 'silent! menu .g:NetrwMenuPriority.'.11.1 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ Current\
Window<tab><<cr> '."<cr>'
 exe 'silent! menu .g:NetrwMenuPriority.'.11.2 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.Preview\
File/Directory<tab>p p'
 exe 'silent! menu .g:NetrwMenuPriority.'.11.3 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ Previous\ Window<tab>P
P'
 exe 'silent! menu .g:NetrwMenuPriority.'.11.4 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ New\ Window<tab>o o'
 exe 'silent! menu .g:NetrwMenuPriority.'.11.5 '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ New\ Vertical\
Window<tab>v v'
 exe 'silent! menu .g:NetrwMenuPriority.'.12.1 '.g:NetrwTopLvlMenu.'Explore.Directory\ Name :Explore '
 exe 'silent! menu .g:NetrwMenuPriority.'.12.2 '.g:NetrwTopLvlMenu.'Explore.Filenames\ Matching\ Pattern\
(curdir\ only)<tab>:Explore\ */ :Explore */'

```

```

exe 'silent! menu '.g:NetrwMenuPriority.'.12.2 '.g:NetrwTopLvlMenu.'Explore.Filenames\ Matching\ Pattern\
(+subdirs)<tab>:Explore\ **/ :Explore **/'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.3 '.g:NetrwTopLvlMenu.'Explore.Files\ Containing\ Pattern\ (curdir\
only)<tab>:Explore\ **/ :Explore **/'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.4 '.g:NetrwTopLvlMenu.'Explore.Files\ Containing\ Pattern\
(+subdirs)<tab>:Explore\ **/ :Explore **/'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.4 '.g:NetrwTopLvlMenu.'Explore.Next\ Match<tab>:Nexplore
:Nexplore<cr>'
exe 'silent! menu '.g:NetrwMenuPriority.'.12.4 '.g:NetrwTopLvlMenu.'Explore.Prev\ Match<tab>:Pexplore
:Pexplore<cr>'
exe 'silent! menu '.g:NetrwMenuPriority.'.13 '.g:NetrwTopLvlMenu.'Make\ Subdirectory<tab>d d'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.1 '.g:NetrwTopLvlMenu.'Marked\ Files.Mark\ File<tab>mf mf'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.2 '.g:NetrwTopLvlMenu.'Marked\ Files.Mark\ Files\ by\
Regexp<tab>mr mr'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.3 '.g:NetrwTopLvlMenu.'Marked\ Files.Hide-Show-List\
Control<tab>a a'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.4 '.g:NetrwTopLvlMenu.'Marked\ Files.Copy\ To\ Target<tab>mc
mc'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.5 '.g:NetrwTopLvlMenu.'Marked\ Files.Delete<tab>D D'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.6 '.g:NetrwTopLvlMenu.'Marked\ Files.Diff<tab>md md'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.7 '.g:NetrwTopLvlMenu.'Marked\ Files.Edit<tab>me me'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.8 '.g:NetrwTopLvlMenu.'Marked\ Files.Exe\ Cmd<tab>mx mx'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.9 '.g:NetrwTopLvlMenu.'Marked\ Files.Move\ To\ Target<tab>mm
mm'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.10 '.g:NetrwTopLvlMenu.'Marked\ Files.Obtain<tab>O O'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.11 '.g:NetrwTopLvlMenu.'Marked\ Files.Print<tab>mp mp'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.12 '.g:NetrwTopLvlMenu.'Marked\ Files.Replace<tab>R R'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.13 '.g:NetrwTopLvlMenu.'Marked\ Files.Set\ Target<tab>mt mt'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.14 '.g:NetrwTopLvlMenu.'Marked\ Files.Tag<tab>mT mT'
exe 'silent! menu '.g:NetrwMenuPriority.'.14.15 '.g:NetrwTopLvlMenu.'Marked\
Files.Zip/Unzip/Compress/Uncompress<tab>mz mz'
exe 'silent! menu '.g:NetrwMenuPriority.'.15 '.g:NetrwTopLvlMenu.'Obtain\ File<tab>O O'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.1 '.g:NetrwTopLvlMenu.'Style.Listing\ Style\ (thin-long-wide-
tree)<tab>i i'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.2 '.g:NetrwTopLvlMenu.'Style.Normal-Hide-Show<tab>a a'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.3 '.g:NetrwTopLvlMenu.'Style.Reverse\ Sorting\ Order<tab>.'r r'
exe 'silent! menu '.g:NetrwMenuPriority.'.16.4 '.g:NetrwTopLvlMenu.'Style.Sorting\ Method\ (name-time-
size)<tab>s s'
exe 'silent! menu '.g:NetrwMenuPriority.'.17 '.g:NetrwTopLvlMenu.'Rename\ File/Directory<tab>R R'
exe 'silent! menu '.g:NetrwMenuPriority.'.18 '.g:NetrwTopLvlMenu.'Set\ Current\ Directory<tab>c c'
call s:NetrwBookmarkMenu() " provide some history! uses priorities 2,3, reserves 4, 8.2.x
let s:netrw_menucnt= 28

elseif !a:domenu
let s:netrwcnt = 0
let curwin = winnr()
windo if getline(2) =~ "Netrw" | let s:netrwcnt= s:netrwcnt + 1 | endif
exe curwin."wincmd w"

```

```

 if s:netwcnt <= 1
 " call Decho("clear menus")
 exe 'silent! unmenu '.g:NetrwTopLvlMenu
 " call Decho('exe silent! unmenu '.g:NetrwTopLvlMenu.*')
 silent! unlet s:netrw_menu_enabled
 endif
 endif
 " call Dret("NetrwMenu")
 endif

endfun

" -----
" s:NetrwObtain: obtain file under cursor or from markfile list {{{2
" Used by the O maps (as <SID>NetrwObtain())
fun! s:NetrwObtain(islocal)
" call Dfunc("NetrwObtain(islocal=".a:islocal.")")

if exists("s:netrwmarkfilelist_{bufnr('%')}")
let islocal= s:netrwmarkfilelist_{bufnr('%')}[1] !~ '^a\+://'
call netrw#NetrwObtain(islocal,s:netrwmarkfilelist_{bufnr('%')})
call s:NetrwUnmarkList(bufnr('%'),b:netrw_curdir)
else
call netrw#NetrwObtain(a:islocal,expand("<cWORD>"))
endif

" call Dret("NetrwObtain")
endfun

" -----
" netrw#NetrwObtain: {{{2
" netrw#NetrwObtain(islocal,fname[,tgtdirectory])
" islocal=0 obtain from remote source
" =1 obtain from local source
" fname : a filename or a list of filenames
" tgtdir : optional place where files are to go (not present, uses getcwd())
fun! netrw#NetrwObtain(islocal,fname,...)
" call Dfunc("netrw#NetrwObtain(islocal=".a:islocal." fname<" .((type(a:fname) == 1)? a:fname :
string(a:fname)).">) a:0=".a:0)
" NetrwStatusLine support - for obtaining support

if type(a:fname) == 1
let fnamelist= [a:fname]
elseif type(a:fname) == 3
let fnamelist= a:fname
else
call netrw#ErrorMsg(s:ERROR,"attempting to use NetrwObtain on something not a filename or a list",62)

```

```

" call Dret("netrw#NetrwObtain")
return
endif
" call Decho("fnamelist<".string(fnamelist).">")
if a:0 > 0
let tgtmdir= a:1
else
let tgtmdir= getcwd()
endif
" call Decho("tgtmdir<".tgtmdir.">")

if exists("b:netrw_islocal") && b:netrw_islocal
" obtain a file from local b:netrw_curdir to (local) tgtmdir
" call Decho("obtain a file from local ".b:netrw_curdir." to ".tgtmdir)
if exists("b:netrw_curdir") && getcwd() != b:netrw_curdir
let topath= s:ComposePath(tgtmdir,"")
if (has("win32") || has("win95") || has("win64") || has("win16"))
" transfer files one at time
" call Decho("transfer files one at a time")
for fname in fnamelist
" call Decho("system(".g:netrw_localcopycmd." ".shellescape(fname)." ".shellescape(topath).)")")
call system(g:netrw_localcopycmd." ".shellescape(fname)." ".shellescape(topath))
endfor
else
" transfer files with one command
" call Decho("transfer files with one command")
let filelist= join(map(deepcopy(fnamelist),"shellescape(v:val)"))
" call Decho("system(".g:netrw_localcopycmd." ".filelist." ".shellescape(topath).)")")
call system(g:netrw_localcopycmd." ".filelist." ".shellescape(topath))
endif
elseif !exists("b:netrw_curdir")
call netrw#ErrorMsg(s:ERROR,"local browsing directory doesn't exist!",36)
else
call netrw#ErrorMsg(s:WARNING,"local browsing directory and current directory are identical",37)
endif

else
" obtain files from remote b:netrw_curdir to local tgtmdir
" call Decho("obtain a file from remote ".b:netrw_curdir." to ".tgtmdir)
if type(a:fname) == 1
call s:SetupNetrwStatusLine('%f %h%m%r%=%9*Obtaining '.a:fname)
endif
call s:NetrwMethod(b:netrw_curdir)

if b:netrw_method == 4
" obtain file using scp
" call Decho("obtain via scp (method#4)")
if exists("g:netrw_port") && g:netrw_port != ""

```

```

let useport= " "g:netrw_scpport." "g:netrw_port
else
let useport= ""
endif
if b:netrw_fname =~ '/'
let path= substitute(b:netrw_fname,'^\(.*/\)\{-}$','\1,')
else
let path= ""
endif
let filelist= join(map(deepcopy(fnamelist),'shellescape(g:netrw_machine." ".path.v:val,1)))
" call Decho("exe ".s:netrw_silentxfer."!"g:netrw_scp_cmd.shellescape(useport,1)." ".filelist."
".shellescape(tgtdir,1))
exe s:netrw_silentxfer."!"g:netrw_scp_cmd.shellescape(useport,1)." ".filelist." ".shellescape(tgtdir,1)

elseif b:netrw_method == 2
" obtain file using ftp + .netrc
" call Decho("obtain via ftp+.netrc (method #2)")
call s:SaveBufVars()/silent keepjumps new|call s:RestoreBufVars()
let tmpbufnr= bufnr("%")
setlocal ff=unix
if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
put =g:netrw_ftpmode
" call Decho("filter input: ".getline('$'))
endif

if exists("b:netrw_fname") && b:netrw_fname != ""
call setline(line("$")+1,'cd "'b:netrw_fname."')
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
endif

for fname in fnamelist
call setline(line("$")+1,'get "'fname."')
" call Decho("filter input: ".getline('$'))
endfor

if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("executing: %!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
exe s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
else
" call Decho("executing: %!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
exe s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif

" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)

```



```

if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
 let debugkeep= &debug
 setlocal debug=msg
 call netrw#ErrorMsg(s:ERROR,getline(1),4)
 let &debug= debugkeep
endif

elseif b:netrw_method == 3
 " obtain with ftp + machine, id, passwd, and fname (ie. no .netrc)
 " call Decho("obtain via ftp+mipf (method #3)")
 call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
 let tmpbufnr= bufnr("%")
 setlocal ff=unix

if exists("g:netrw_port") && g:netrw_port != ""
 put ='open '.g:netrw_machine.' '.g:netrw_port
" call Decho("filter input: ".getline('$'))
else
 put ='open '.g:netrw_machine
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
 put =g:netrw_uid
" call Decho("filter input: ".getline('$'))
 put ="\":s:netrw_passwd.\""
" call Decho("filter input: ".getline('$'))
else
 put ='user \"'.g:netrw_uid.\" \"'.s:netrw_passwd.\""
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
 put =g:netrw_ftpmode
" call Decho("filter input: ".getline('$'))
endif

if exists("b:netrw_fname") && b:netrw_fname != ""
 call setline(line("$")+1,'cd "'.b:netrw_fname.'"')
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")
 put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftpextracmd")

```

```

 put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
endif
for fname in fnamelist
 call setline(line("$")+1,'get "'.fname."')
endfor
" call Decho("filter input: ".getline('$'))

" perform ftp:
" -i : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
norm! 1Gdd
" call Decho("executing: %!".g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
if getline(1) !~ "^$"
" call Decho("error<".getline(1).">")
 if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,getline(1),5)
 endif
endif
elseif !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetrwObtain : unsupported method")
return
endif

" restore status line
if type(a:fname) == 1 && exists("s:netrw_users_stl")
 call s:SetupNetrwStatusLine(s:netrw_users_stl)
endif

endif

" cleanup
if exists("tmpbufnr")
if bufnr("%") != tmpbufnr
 exe tmpbufnr."bw!"
else
 q!
endif
endif

" call Dret("netrw#NetrwObtain")
endfun

" -----
" s:NetrwPrevWinOpen: open file/directory in previous window. {{{2

```

```

" If there's only one window, then the window will first be split.
" Returns:
" choice = 0 : didn't have to choose
" choice = 1 : saved modified file in window first
" choice = 2 : didn't save modified file, opened window
" choice = 3 : cancel open
fun! s:NetrwPrevWinOpen(islocal)
" call Dfunc("NetrwPrevWinOpen(islocal=".a:islocal.")")

" grab a copy of the b:netrw_curdir to pass it along to newly split windows
let curdir = b:netrw_curdir

" get last window number and the word currently under the cursor
let lastwinnr = winnr("$")
let curword = s:NetrwGetWord()
let choice = 0
" call Decho("lastwinnr=".lastwinnr." curword<".curword.">")

let didsplit = 0
if lastwinnr == 1
" if only one window, open a new one first
" call Decho("only one window, so open a new one (g:netrw_alto=".g:netrw_alto.")")
if g:netrw_preview
" call Decho("exe ".(g:netrw_alto? "top " : "bot ")."vert ".g:netrw_winsize."wincmd s")
exe (g:netrw_alto? "top " : "bot ")."vert ".g:netrw_winsize."wincmd s"
else
" call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
endif
let didsplit = 1

else
call s:SaveBufVars()
" call Decho("wincmd p")
wincmd p
call s:RestoreBufVars()
" if the previous window's buffer has been changed (is modified),
" and it doesn't appear in any other extant window, then ask the
" user if s/he wants to abandon modifications therein.
let bnr = winbufnr(0)
let bnrct = 0
if &mod
" call Decho("detected: prev window's buffer has been modified: bnr=".bnr." winnr#" .winnr())
let eikeep= &ei
set ei=all
windo if winbufnr(0) == bnr | let bnrct=bnrct+1 | endif
exe bnr."wincmd p"
let &ei= eikeep

```

```

" call Decho("bnr=".bnr." bnrct=".bnrcnt." buftype=".&bt." winnr#".winnr())
if bnrct == 1
let bufname= bufname(winbufnr(winnr()))
let choice= confirm("Save modified file<".bufname.">?","&Yes\n&No\n&Cancel")
" call Decho("bufname<".bufname."> choice=".".choice." winnr#".winnr())

if choice == 1
" Yes -- write file & then browse
let v:errmsg= ""
silent w
if v:errmsg != ""
call netrw#ErrorMsg(s:ERROR,"unable to write <".bufname.">!",30)
if didsplit
q
else
wincmd p
endif
" call Dret("NetrwPrevWinOpen ".choice." : unable to write <".bufname.">")
return choice
endif

elseif choice == 2
" No -- don't worry about changed file, just browse anyway
setlocal nomod
call netrw#ErrorMsg(s:WARNING,bufname." changes to ".bufname." abandoned",31)
wincmd p

else
" Cancel -- don't do this
if didsplit
q
else
wincmd p
endif
" call Dret("NetrwPrevWinOpen ".choice." : cancelled")
return choice
endif
endif
endif

" restore b:netrw_curdir (window split/eww may have lost it)
let b:netrw_curdir= curdir
if a:islocal < 2
if a:islocal
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(a:islocal,curword))
else
call s:NetrwBrowse(a:islocal,s:NetrwBrowseChgDir(a:islocal,curword))

```

```

endif
endif
" call Dret("NetrwPrevWinOpen ".choice)
return choice
endfun

" -----
" s:NetrwUpload: load fname to tgt (used by NetrwMarkFileCopy()) {{{2
" Always assumed to be local -> remote
" call s:NetrwUpload(filename, target)
" call s:NetrwUpload(filename, target, fromdirectory)
fun! s:NetrwUpload(fname,tgt,...)
" call Dfunc("s:NetrwUpload(fname<".((type(a:fname) == 1)? a:fname : string(a:fname))."> tgt<".a:tgt.">)
a:0=".a:0)

if a:tgt =~ '^a\+://'
let tgt_dir= substitute(a:tgt,'^a\+://[^/]+\^(.\{-}\)\$',\1,")
else
let tgt_dir= substitute(a:tgt,'^(.*)/[^/]*$',\1,")
endif
" call Decho("tgt_dir<".tgt_dir.">")

if a:0 > 0
let fromdir= a:1
else
let fromdir= getcwd()
endif
" call Decho("fromdir<".fromdir.">")

if type(a:fname) == 1
" handle uploading a single file using NetWrite
" call Decho("handle uploading a single file via NetWrite")
!split
" call Decho("exe e ".fnameescape(a:fname))
exe "e ".fnameescape(a:fname)
" call Decho("now locally editing<".expand("%").">, has ".line("$")." lines")
if a:tgt =~ '/'$
let wfname= substitute(a:fname,'^.*/',,")
" call Decho("exe w! ".fnameescape(wfname))
exe "w! ".fnameescape(a:tgt.wfname)
else
" call Decho("writing local->remote: exe w ".fnameescape(a:tgt))
exe "w ".fnameescape(a:tgt)
" call Decho("done writing local->remote")
endif
q!

elseif type(a:fname) == 3

```

```

" handle uploading a list of files via scp
" call Decho("handle uploading a list of files via scp")
let curdir= getcwd()
if a:tgt =~ '^scp:'
 exe "keepjumps silent lcd ".fnameescape(fromdir)
 let filelist= deepcopy(s:netrwmarkfilelist_{bufnr('%')})
 let args = join(map(filelist,"shellescape(v:val, 1)")
 if exists("g:netrw_port") && g:netrw_port != ""
 let useport= " ".g:netrw_scpport." ".g:netrw_port
 else
 let useport= ""
 endif
 let machine = substitute(a:tgt,'^scp:/\([^:/]\+\).*$',\1,")
 let tgt = substitute(a:tgt,'^scp://\[^/]\+\(.*\)$',\1,")
" call Decho("exe ".s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".args."
".shellescape(machine.":".tgt,1))
 exe s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".args." ".shellescape(machine.":".tgt,1)
 exe "keepjumps silent lcd ".fnameescape(curdir)

elseif a:tgt =~ '^ftp:'
 call s:NetrwMethod(a:tgt)

 if b:netrw_method == 2
 " handle uploading a list of files via ftp+.netrc
 let netrw_fname = b:netrw_fname
 silent keepjumps new
" call Decho("filter input window#".winnr())

 put =g:netrw_ftpmode
" call Decho("filter input: ".getline('$'))

 if exists("g:netrw_ftpextracmd")
 put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
 endif

 call setline(line("$")+1,'lcd "'.fromdir.'"')
" call Decho("filter input: ".getline('$'))

 call setline(line("$")+1,'cd "'.tgtmdir.'"')
" call Decho("filter input: ".getline('$'))

 for fname in a:fname
 call setline(line("$")+1,'put "'.fname.'"')
" call Decho("filter input: ".getline('$'))
 endfor

 if exists("g:netrw_port") && g:netrw_port != ""

```

```

" call Decho("executing: ".s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
 exe s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
 else
" call Decho("filter input window#".winnr())
" call Decho("executing: ".s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
 exe s:netrw_silentxfer."%!"g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
endif
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
silent g/Local directory now/d
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
 call netrw#ErrorMsg(s:ERROR,getline(1),14)
else
 bw!|q
endif

elseif b:netrw_method == 3
" upload with ftp + machine, id, passwd, and fname (ie. no .netrc)
let netrw_fname= b:netrw_fname
call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
let tmpbufnr= bufnr("%")
setlocal ff=unix

if exists("g:netrw_port") && g:netrw_port != ""
 put ='open '.g:netrw_machine.' '.g:netrw_port
" call Decho("filter input: ".getline('$'))
else
 put ='open '.g:netrw_machine
" call Decho("filter input: ".getline('$'))
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
 put =g:netrw_uid
" call Decho("filter input: ".getline('$'))
 call setline(line("$")+1,"".s:netrw_passwd."")
" call Decho("filter input: ".getline('$'))
else
 put ='user \"".g:netrw_uid.\" \"".s:netrw_passwd.\""
" call Decho("filter input: ".getline('$'))
endif

call setline(line("$")+1,'lcd "'.fromdir."")
" call Decho("filter input: ".getline('$'))

if exists("b:netrw_fname") && b:netrw_fname != ""
 call setline(line("$")+1,'cd "'.b:netrw_fname."")
" call Decho("filter input: ".getline('$'))

```

```

endif

if exists("g:netrw_ftpextracmd")
 put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('$'))
endif

for fname in a:fname
 call setline(line("$")+1,'put "'.fname.'"')
" call Decho("filter input: ".getline('$'))
endfor

" perform ftp:
" -i : turns off interactive prompting from ftp
" -n unix : DON'T use <.netrc>, even though it exists
" -n win32: quit being obnoxious about password
norm! |Gdd
" call Decho("executing: ".s:netrw_silentxfer."!"g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer."!"g:netrw_ftp_cmd." -i -n"
" If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
silent g/Local directory now/d
if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
 let debugkeep= &debug
 setlocal debug=msg
 call netrw#ErrorMsg(s:ERROR,getline(1),15)
 let &debug = debugkeep
 let mod = 1
else
 bw!|q
endif
elseif !exists("b:netrw_method") || b:netrw_method < 0
" call Dfunc("netrw#NetrwUpload : unsupported method")
return
endif
else
 call netrw#ErrorMsg(s:ERROR,"can't obtain files with protocol from<".a:tgt.">",>,63)
endif
endif

" call Dret("s:NetrwUpload")
endfun

" -----
" s:NetrwPreview: {{{2
fun! s:NetrwPreview(path) range
" call Dfunc("NetrwPreview(path<".a:path.">)")
call s:NetrwOptionSave("s:")
call s:NetrwSafeOptions()

```



```

if has("quickfix")
if !isdirectory(a:path)
 exe (g:netrw_preview? "vert " : "")."pedit ".fnameescape(a:path)
elseif !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:WARNING,"sorry, cannot preview a directory such as <".a:path.">",38)
endif
elseif !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:WARNING,"sorry, to preview your vim needs the quickfix feature compiled in",39)
endif
call s:NetrwOptionRestore("s:")
" call Dret("NetrwPreview")
endfun

" -----
" s:NetrwRefresh: {{{2
fun! s:NetrwRefresh(islocal,dirname)
" call Dfunc("NetrwRefresh(islocal<".a:islocal.">,dirname=".a:dirname.") hide=".g:netrw_hide."
sortdir=".g:netrw_sort_direction)
" at the current time (Mar 19, 2007) all calls to NetrwRefresh() call NetrwBrowseChgDir() first.
" NetrwBrowseChgDir() may clear the display; hence a NetrwSavePosn() may not work if its placed here.
" Also, NetrwBrowseChgDir() now does a NetrwSavePosn() itself.
setlocal ma noro
" call Decho("setlocal ma noro")
" call Decho("clear buffer<".expand("%")."> with :%d")
%d
if a:islocal
 call netrw#LocalBrowseCheck(a:dirname)
else
 call s:NetrwBrowse(a:islocal,a:dirname)
endif
call netrw#NetrwRestorePosn()

" restore file marks
if exists("s:netrwmarkfilemtch_{bufnr('%')}") && s:netrwmarkfilemtch_{bufnr("%")} != ""
" call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
else
" call Decho("2match none")
2match none
endif

" redraw!
" call Dret("NetrwRefresh")
endfun

" -----
" s:NetrwRefreshDir: refreshes a directory by name {{{2
" Called by NetrwMarkFileCopy()

```

```

" Interfaces to s:NetrwRefresh() and s:LocalBrowseShellCmdRefresh()
fun! s:NetrwRefreshDir(islocal,dirname)
" call Dfunc("s:NetrwRefreshDir(islocal=".a:islocal." dirname<"a:dirname.">) fastbrowse=".g:netrw_fastbrowse)
if g:netrw_fastbrowse == 0
" slowest mode (keep buffers refreshed, local or remote)
" call Decho("slowest mode: keep buffers refreshed, local or remote")
let tgtwin= bufwinnr(a:dirname)
" call Decho("tgtwin= bufwinnr(".a:dirname.")=".tgtwin)

if tgtwin > 0
" tgtwin is being displayed, so refresh it
let curwin= winnr()
" call Decho("refresh tgtwin#".tgtwin." (curwin#".curwin.")")
exe tgtwin."wincmd w"
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
exe curwin."wincmd w"

elseif bufnr(a:dirname) > 0
let bn= bufnr(a:dirname)
" call Decho("bd bufnr(".a:dirname.")=".bn)
exe "silent bd ".bn
endif

elseif g:netrw_fastbrowse <= 1
" call Decho("medium-speed mode: refresh local buffers only")
call s:LocalBrowseShellCmdRefresh()
endif
" call Dret("s:NetrwRefreshDir")
endfun

" -----
" s:NetrwSetSort: sets up the sort based on the g:netrw_sort_sequence {{{2
" What this function does is to compute a priority for the patterns
" in the g:netrw_sort_sequence. It applies a substitute to any
" "files" that satisfy each pattern, putting the priority / in
" front. An "*" pattern handles the default priority.
fun! s:NetrwSetSort()
" call Dfunc("SetSort() bannercnt=".w:netrw_bannercnt)
if w:netrw_liststyle == s:LONGLIST
let seqlist = substitute(g:netrw_sort_sequence, '$, '\|%(t\|$\|)\|', 'ge')
else
let seqlist = g:netrw_sort_sequence
endif
" sanity check -- insure that * appears somewhere
if seqlist == ""
let seqlist= '*'
elseif seqlist !~ *
let seqlist= seqlist.'*'

```

```

endif
let priority = 1
while seqlist != ""
if seqlist =~ ','
let seq = substitute(seqlist, '.*$', '', 'e')
let seqlist = substitute(seqlist, '^.\{-},\{.*\}$', '\1', 'e')
else
let seq = seqlist
let seqlist = ""
endif
let sepchr = "\<Char-0xff>"
if priority < 10
let spriority = "00".priority.sepchr
elseif priority < 100
let spriority = "0".priority.sepchr
else
let spriority = priority.sepchr
endif
" call Decho("priority=" .priority. " spriority<" .spriority. "> seq<" .seq. "> seqlist<" .seqlist. ">")

" sanity check
if w:netrw_bannercnt > line("$")
" apparently no files were left after a Hiding pattern was used
" call Dret("SetSort : no files left after hiding")
return
endif
if seq == '*'
let starpriority = spriority
else
exe 'silent keepjumps ' .w:netrw_bannercnt. ',$g/'.seq.'/s/^/'.spriority.'/
" sometimes multiple sorting patterns will match the same file or directory.
" The following substitute is intended to remove the excess matches.
exe 'silent keepjumps ' .w:netrw_bannercnt. ',$g/^\d\{3\}'.sepchr.'\d\{3\}/s/^\d\{3\}'.sepchr.'\(\d\{3\}\|\\).\@=1/e'
endif
let priority = priority + 1
endwhile
if exists("starpriority")
exe 'silent keepjumps ' .w:netrw_bannercnt. ',$v/^\d\{3\}'.sepchr.'/s/^/'.starpriority.'/
endif

" Following line associated with priority -- items that satisfy a priority
" pattern get prefixed by ###/ which permits easy sorting by priority.
" Sometimes files can satisfy multiple priority patterns -- only the latest
" priority pattern needs to be retained. So, at this point, these excess
" priority prefixes need to be removed, but not directories that happen to
" be just digits themselves.
exe 'silent keepjumps ' .w:netrw_bannercnt. ',$s/^\(\d\{3\}'.sepchr.'\)\%(\d\{3\}'.sepchr.'\)|+ze.^1/e'

```

```

" call Dret("SetSort")
endfun

" =====
" s:NetrwSortStyle: change sorting style (name - time - size) and refresh display {{{2
fun! s:NetrwSortStyle(islocal)
" call Dfunc("s:NetrwSortStyle(islocal=".a:islocal.") netrw_sort_by<".g:netrw_sort_by.">")
call s:NetrwSaveWordPosn()
let svpos= netrw#NetrwSavePosn()

let g:netrw_sort_by= (g:netrw_sort_by =~ 'n')? 'time' : (g:netrw_sort_by =~ 't')? 'size' : 'name'
norm! 0
call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,./))
call netrw#NetrwRestorePosn(svpos)

" call Dret("s:NetrwSortStyle : netrw_sort_by<".g:netrw_sort_by.">")
endfun

" -----
" s:NetrwSplit: mode {{{2
" =0 : net and o
" =1 : net and t
" =2 : net and v
" =3 : local and o
" =4 : local and t
" =5 : local and v
fun! s:NetrwSplit(mode)
" call Dfunc("s:NetrwSplit(mode=".a:mode.") alto="g:netrw_alto." altv="g:netrw_altv)

call s:SaveWinVars()

if a:mode == 0
" remote and o
" call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
let s:didsplit= 1
call s:RestoreWinVars()
call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
unlet s:didsplit

elseif a:mode == 1
" remote and t
let newdir = s:NetrwBrowseChgDir(0,s:NetrwGetWord())
" call Decho("tabnew")
tabnew
let s:didsplit= 1
call s:RestoreWinVars()
call s:NetrwBrowse(0,newdir)

```

```

unlet s:didsplit

elseif a:mode == 2
" remote and v
" call Decho("exe ".(g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v")
exe (g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v"
let s:didsplit= 1
call s:RestoreWinVars()
call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
unlet s:didsplit

elseif a:mode == 3
" local and o
" call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
let s:didsplit= 1
call s:RestoreWinVars()
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
unlet s:didsplit

elseif a:mode == 4
" local and t
let netrw_curdir= b:netrw_curdir
let cursorword = s:NetrwGetWord()
" call Decho("tabnew")
tabnew
let b:netrw_curdir= netrw_curdir
let s:didsplit= 1
call s:RestoreWinVars()
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,cursorword))
unlet s:didsplit

elseif a:mode == 5
" local and v
" call Decho("exe ".(g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v")
exe (g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v"
let s:didsplit= 1
call s:RestoreWinVars()
call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
unlet s:didsplit

else
call netrw#ErrorMsg(s:ERROR, "(NetrwSplit) unsupported mode=" .a:mode,45)
endif

" call Dret("s:NetrwSplit")
endfun

```

```

" -----
" NetrwStatusLine: {{{2
fun! NetrwStatusLine()

" vvv NetrwStatusLine() debugging vvv
" let g:stlmsg=""
" if !exists("w:netrw_explore_bufnr")
" let g:stlmsg="!X<explore_bufnr>"
" elseif w:netrw_explore_bufnr != bufnr("%")
" let g:stlmsg="explore_bufnr!=".bufnr("%")
" endif
" if !exists("w:netrw_explore_line")
" let g:stlmsg="!X<explore_line>"
" elseif w:netrw_explore_line != line(".")
" let g:stlmsg=" explore_line!={line(.)<".line(".).">"
" endif
" if !exists("w:netrw_explore_list")
" let g:stlmsg="!X<explore_list>"
" endif
" ^^^ NetrwStatusLine() debugging ^^^

if !exists("w:netrw_explore_bufnr") || w:netrw_explore_bufnr != bufnr("%") || !exists("w:netrw_explore_line") ||
w:netrw_explore_line != line(".") || !exists("w:netrw_explore_list")
" restore user's status line
let &stl = s:netrw_users_stl
let &laststatus = s:netrw_users_ls
if exists("w:netrw_explore_bufnr")|unlet w:netrw_explore_bufnr|endif
if exists("w:netrw_explore_line") |unlet w:netrw_explore_line |endif
return ""
else
return "Match ".w:netrw_explore_mtchcnt." of ".w:netrw_explore_listlen
endif
endfun

" -----
" s:NetrwTreeDir: determine tree directory given current cursor position {{{2
" (full path directory with trailing slash returned)
fun! s:NetrwTreeDir()
" call Dfunc("NetrwTreeDir() curline#".line(".)."<".getline('.')."> b:netrw_curdir<".b:netrw_curdir.">
tab#".tabpagenr()." win#".winnr()." buf#".bufnr("%")."<".bufname("%").">")

let treedir= b:netrw_curdir
" call Decho("set initial treedir<".treedir.">")
let s:treecurpos= netrw#NetrwSavePosn()

if w:netrw_liststyle == s:TREELIST
" call Decho("w:netrw_liststyle is TREELIST:")
" call Decho("line#".line(".).". getline(.)<".getline('.')."> treecurpos<".string(s:treecurpos).">")

```

```

if getline('.') =~ '/'$'
 let treedir= substitute(getline('.'),'^\%(| \)*\([^\].\{-}\)$',\1,'e')
else
 let treedir= ""
endif

" call Decho("treedir<".treedir.">")

" detect user attempting to close treeroot
if getline('.') !~ '|' && getline('.') != '..'
" call Decho("user attempted to close treeroot")
" now force a refresh
" call Decho("clear buffer<".expand("%")."> with :%d")
keepjumps %d
" call Dret("NetrwTreeDir <".treedir."> : (side effect) s:treecurpos<".string(s:treecurpos).">")
return b:netrw_curdir
endif

" elide all non-depth information
let depth = substitute(getline('.'),'^\%(| \)*\([^\].\{-}\)$',\1,'e')
" call Decho("depth<".depth."> 1st subst")

" elide first depth
let depth = substitute(depth,'^| ','")
" call Decho("depth<".depth."> 2nd subst")

" construct treedir by searching backwards at correct depth
" call Decho("constructing treedir<".treedir."> depth<".depth.">")
while depth != "" && search('^'.depth.'[^\].\{-}/$','bW')
 let dirname= substitute(getline('.'),'^\%(| \)*;',',e')
 let treedir= dirname.treedir
 let depth = substitute(depth,'^| ','")
" call Decho("constructing treedir<".treedir.">: dirname<".dirname."> while depth<".depth.">")
endwhile
if w:netrw_treetop =~ '/'$'
 let treedir= w:netrw_treetop.treedir
else
 let treedir= w:netrw_treetop.'/'.treedir
endif
" call Decho("bufnr(.)=".bufnr("%")." line($)=.line("$")." line(.)=.line("."))
endif
let treedir= substitute(treedir,'/$','/',")

" " now force a refresh
"" call DECHO("clear buffer<".expand("%")."> with :%d")
" setlocal ma noro
" keepjumps %d

```

```

" call Dret("NetrwTreeDir <" .treedir."> : (side effect) s:treecurpos<".string(s:treecurpos).">")
return treedir
endfun

" -----
" s:NetrwTreeDisplay: recursive tree display {{{2
fun! s:NetrwTreeDisplay(dir,depth)
" call Dfunc("NetrwTreeDisplay(dir<" .a:dir."> depth<" .a:depth.">)")

" insure that there are no folds
setlocal nofen

" install ../ and shortdir
if a:depth == ""
call setline(line("$")+1,'../')
" call Decho("setline#" .line("$")." ../ (depth is zero)")
endif
if a:dir =~ '^a\+://'
if a:dir == w:netrw_treetop
let shortdir= a:dir
else
let shortdir= substitute(a:dir,'^.*\([^\]\+\/)\$','\1/','e')
endif
call setline(line("$")+1,a:depth.shortdir)
else
let shortdir= substitute(a:dir,'^.*\/','e')
call setline(line("$")+1,a:depth.shortdir.'/')
endif
" call Decho("setline#" .line("$")." shortdir<" .a:depth.shortdir.">")

" append a / to dir if its missing one
let dir= a:dir
if dir !~ '/'
let dir= dir.'/')
endif

" display subtrees (if any)
let depth= "| " .a:depth

" call Decho("display subtrees with depth<" .depth."> and current leaves")
for entry in w:netrw_treedict[a:dir]
let direntry= substitute(dir.entry,'/$','','e')
" call Decho("dir<" .dir."> entry<" .entry."> direntry<" .direntry.">")
if entry =~ '/' && has_key(w:netrw_treedict,direntry)
" call Decho("<" .direntry."> is a key in treedict - display subtree for it")
call s:NetrwTreeDisplay(direntry,depth)
elseif entry =~ '/' && has_key(w:netrw_treedict,direntry.'/')
" call Decho("<" .direntry."/> is a key in treedict - display subtree for it")

```



```

 call s:NetrwTreeDisplay(direntry.'/',depth)
else
" call Decho("<.entry.> is not a key in treedict (no subtree)")
 call setline(line("$")+1,depth.entry)
endif
endfor
" call Dret("NetrwTreeDisplay")
endfun

" -----
" s:NetrwTreeListing: displays tree listing from treetop on down, using NetrwTreeDisplay() {{{2
fun! s:NetrwTreeListing(dirname)
if w:netrw_liststyle == s:TREELIST
" call Dfunc("NetrwTreeListing() bufname<".expand("%").">")
" call Decho("curdir<".a:dirname.">")
" call Decho("win#".winnr().": w:netrw_treetop ".(exists("w:netrw_treetop")? "exists" : "doesn't exit")."
w:netrw_treedict ".(exists("w:netrw_treedict")? "exists" : "doesn't exit"))

" update the treetop
" call Decho("update the treetop")
if !exists("w:netrw_treetop")
 let w:netrw_treetop= a:dirname
" call Decho("w:netrw_treetop<".w:netrw_treetop."> (reusing)")
elseif (w:netrw_treetop =~ ('^'.a:dirname) && s:Strlen(a:dirname) < s:Strlen(w:netrw_treetop)) || a:dirname !~
('^'.w:netrw_treetop)
 let w:netrw_treetop= a:dirname
" call Decho("w:netrw_treetop<".w:netrw_treetop."> (went up)")
endif

" insure that we have at least an empty treedict
if !exists("w:netrw_treedict")
 let w:netrw_treedict= {}
endif

" update the directory listing for the current directory
" call Decho("updating dictionary with ".a:dirname.":[..directory listing..]")
" call Decho("bannercnt=".w:netrw_bannercnt." line($)=.line("$"))
exe "silent! keepjumps ".w:netrw_bannercnt.",$g@^\.\.|.=/$@d'
let w:netrw_treedict[a:dirname]= getline(w:netrw_bannercnt,line("$"))
" call Decho("w:treedict[".a:dirname."]= ".w:netrw_treedict[a:dirname])
exe "silent! keepjumps ".w:netrw_bannercnt.",$d"

" if past banner, record word
if exists("w:netrw_bannercnt") && line(".") > w:netrw_bannercnt
 let fname= expand("<cword>")
else
 let fname= ""
endif

```

```

" call Decho("fname<".fname.">")

" display from treetop on down
call s:NetrwTreeDisplay(w:netrw_treetop, "")

" call Dret("NetrwTreeListing : bufname<".expand("%").">")
endif
endfun

" -----
" s:NetrwWideListing: {{{2
fun! s:NetrwWideListing()

if w:netrw_liststyle == s:WIDELIST
" call Dfunc("NetrwWideListing() w:netrw_liststyle=".w:netrw_liststyle.' fo='.&fo.' l:fo='.&l:fo)
" look for longest filename (cpf=characters per filename)
" cpf: characters per file
" fpl: files per line
" fpc: files per column
setlocal ma noro
" call Decho("setlocal ma noro")
let b:netrw_cpf= 0
if line("$") >= w:netrw_bannercnt
exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^./if virtcol("$") > b:netrw_cpf|let b:netrw_cpf= virtcol("$)|endif'
else
" call Dret("NetrwWideListing")
return
endif
" call Decho("max file strlen+1=".b:netrw_cpf)
let b:netrw_cpf= b:netrw_cpf + 1

" determine qty files per line (fpl)
let w:netrw_fpl= winwidth(0)/b:netrw_cpf
if w:netrw_fpl <= 0
let w:netrw_fpl= 1
endif
" call Decho("fpl= ".winwidth(0)."/[b:netrw_cpf=".b:netrw_cpf.']=.w:netrw_fpl)

" make wide display
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^.*$^/=escape(sprintf("%-'.b:netrw_cpf.'s',submatch(0)), "\\")/'
let fpc = (line("$") - w:netrw_bannercnt + w:netrw_fpl)/w:netrw_fpl
let newcolstart = w:netrw_bannercnt + fpc
let newcolend = newcolstart + fpc - 1
" call Decho("bannercnt=".w:netrw_bannercnt." fpl=".w:netrw_fpl." fpc=".fpc."
newcol["newcolstart.", "newcolend."]")
silent! let keepregstar = @*
while line("$") >= newcolstart
if newcolend > line("$") | let newcolend= line("$") | endif

```

```

let newcolqty= newcolend - newcolstart
exe newcolstart
if newcolqty == 0
 exe "silent keepjumps norm! 0\<c-v>$hx".w:netrw_bannercnt."G$p"
else
 exe "silent keepjumps norm! 0\<c-v>".newcolqty.'j$hx'.w:netrw_bannercnt.'G$p'
endif
exe "silent keepjumps ".newcolstart.''.newcolend.'d'
exe 'silent keepjumps '.w:netrw_bannercnt
endwhile
silent! let @*= keepregstar
exe "silent keepjumps ".w:netrw_bannercnt.',$s\s\+$//e'
setlocal noma nomod ro
" call Dret("NetrwWideListing")
endif

endfun

" -----
" s:PerformListing: {{{2
fun! s:PerformListing(islocal)
" call Dfunc("s:PerformListing(islocal=".a:islocal.") buf(%)=".bufnr("%")."<".bufname("%").">")

call s:NetrwSafeOptions()
setlocal noro ma
" call Decho("setlocal noro ma")

" if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1 " Decho
" call Decho("(netrw) Processing your browsing request...")
" endif " Decho

" call Decho('w:netrw_liststyle='.(exists("w:netrw_liststyle")? w:netrw_liststyle : 'n/a'))
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
" force a refresh for tree listings
" call Decho("force refresh for treelisting: clear buffer<".expand("%")."> with :%d")
keepjumps %d
endif

" save current directory on directory history list
call s:NetrwBookHistHandler(3,b:netrw_curdir

" Set up the banner {{{3
" call Decho("set up banner")
keepjumps put =\
=====
keepjumps put =\ Netrw Directory Listing (netrw 'g:loaded_netrw.')'
keepjumps put =\ 'b:netrw_curdir
keepjumps 1d

```

```

let w:netrw_bannercnt= 3
exe "keepjumps ".w:netrw_bannercnt

let sortby= g:netrw_sort_by
if g:netrw_sort_direction =~ "^r"
 let sortby= sortby." reversed"
endif

" Sorted by... {{{3
" call Decho("handle specified sorting: g:netrw_sort_by<".g:netrw_sort_by.">")
if g:netrw_sort_by =~ "^n"
" call Decho("directories will be sorted by name")
" sorted by name
keepjumps put =\" Sorted by '.sortby
keepjumps put =\" Sort sequence: '.g:netrw_sort_sequence
let w:netrw_bannercnt= w:netrw_bannercnt + 2
else
" call Decho("directories will be sorted by size or time")
" sorted by size or date
keepjumps put =\" Sorted by '.sortby
let w:netrw_bannercnt= w:netrw_bannercnt + 1
endif
exe "keepjumps ".w:netrw_bannercnt

" show copy/move target, if any
if exists("s:netrw_mftgt") && exists("s:netrw_mftgt_islocal")
" call Decho("show copy/move target<".s:netrw_mftgt.">")
keepjumps put ="
if s:netrw_mftgt_islocal
 call setline(line("."), " Copy/Move Tgt: '.s:netrw_mftgt.' (local)")
else
 call setline(line("."), " Copy/Move Tgt: '.s:netrw_mftgt.' (remote)")
endif
let w:netrw_bannercnt= w:netrw_bannercnt + 1
else
" call Decho("s:netrw_mftgt does not exist, don't make Copy/Move Tgt")
endif
exe "keepjumps ".w:netrw_bannercnt

" Hiding... -or- Showing... {{{3
" call Decho("handle hiding/showing (g:netrw_hide="'.g:netrw_list_hide.'"
g:netrw_list_hide<".g:netrw_list_hide.">")
if g:netrw_list_hide != "" && g:netrw_hide
if g:netrw_hide == 1
 keepjumps put =\" Hiding: '.g:netrw_list_hide
else
 keepjumps put =\" Showing: '.g:netrw_list_hide
endif

```

```

let w:netrw_bannercnt= w:netrw_bannercnt + 1
endif
exe "keepjumps ".w:netrw_bannercnt
keepjumps put =\" Quick Help: <F1>:help -:go up dir D:delete R:rename s:sort-by x:exec'
keepjumps put =\"
=====
let w:netrw_bannercnt= w:netrw_bannercnt + 2

" bannercnt should index the line just after the banner
let w:netrw_bannercnt= w:netrw_bannercnt + 1
exe "keepjumps ".w:netrw_bannercnt
" call Decho("bannercnt=".w:netrw_bannercnt." (should index line just after banner) line($)=.line("$"))

" set up syntax highlighting {{{3
" call Decho("set up syntax highlighting")
if has("syntax")
setlocal ft=netrw
if !exists(":g:syntax_on") || !g:syntax_on
setlocal ft=
endif
endif

" get list of files
" call Decho("Get list of files - islocal=".a:islocal)
if a:islocal
call s:LocalListing()
else " remote
call s:NetrwRemoteListing()
endif
" call Decho("w:netrw_bannercnt=".w:netrw_bannercnt." (banner complete)")

" manipulate the directory listing (hide, sort) {{{3
if line("$") >= w:netrw_bannercnt
" call Decho("manipulate directory listing (hide)")
" call Decho("g:netrw_hide=".g:netrw_hide." g:netrw_list_hide<".g:netrw_list_hide.">")
if g:netrw_hide && g:netrw_list_hide != ""
call s:NetrwListHide()
endif
if line("$") >= w:netrw_bannercnt
" call Decho("manipulate directory listing (sort) : g:netrw_sort_by<".g:netrw_sort_by.">")

if g:netrw_sort_by =~ "^n"
" sort by name
call s:NetrwSetSort()

if w:netrw_bannercnt < line("$")
" call Decho("g:netrw_sort_direction=".g:netrw_sort_direction." (bannercnt=".w:netrw_bannercnt."))
if g:netrw_sort_direction =~ 'n'

```

```

" normal direction sorting
exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!.'.g:netrw_sort_options
else
" reverse direction sorting
exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!.'.g:netrw_sort_options
endif
endif
" remove priority pattern prefix
" call Decho("remove priority pattern prefix")
let sepchr= "\<Char-0xff>"
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\d\{3\}'.sepchr. '/'

elseif a:islocal
if w:netrw_bannercnt < line("$")
" call Decho("g:netrw_sort_direction="g:netrw_sort_direction)
if g:netrw_sort_direction =~ 'n'
" call Decho('exe silent keepjumps '.w:netrw_bannercnt.',$sort')
exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!.'.g:netrw_sort_options
else
" call Decho('exe silent keepjumps '.w:netrw_bannercnt.',$sort!')
exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!.'.g:netrw_sort_options
endif
endif
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\d\{-}\|//e'
endif

elseif g:netrw_sort_direction =~ 'r'
" call Decho('reverse the sorted listing')
exe 'silent keepjumps '.w:netrw_bannercnt.'g/^/m'.w:netrw_bannercnt
endif
endif

" convert to wide/tree listing {{{3
" call Decho("modify display if wide/tree listing style")
call s:NetrwWideListing()
call s:NetrwTreeListing(b:netrw_curdir)

if exists("w:netrw_bannercnt") && line("$") > w:netrw_bannercnt
" place cursor on the top-left corner of the file listing
" call Decho("place cursor on top-left corner of file listing")
exe 'silent keepjumps '.w:netrw_bannercnt
norm! 0
endif

" record previous current directory
let w:netrw_prvdir= b:netrw_curdir
" call Decho("record netrw_prvdir<".w:netrw_prvdir.">")

```

```

" save certain window-oriented variables into buffer-oriented variables {{{3
call s:SetBufWinVars()
call s:NetrwOptionRestore("w:")

" set display to netrw display settings
" call Decho("set display to netrw display settings (noma nomod etc)")
setlocal noma nomod nonu nobl nowrap ro
if exists("s:treecurpos")

 call netrw#NetrwRestorePosn(s:treecurpos)
 unlet s:treecurpos
endif

" call Dret("s:PerformListing : curpos<".string(getpos(".")).">")
endfun

" -----
" s:SetupNetrwStatusLine: {{{2
fun! s:SetupNetrwStatusLine(statline)
" call Dfunc("SetupNetrwStatusLine(statline<".a:statline.">")

if !exists("s:netrw_setup_statline")
 let s:netrw_setup_statline= 1
" call Decho("do first-time status line setup")

if !exists("s:netrw_users_stl")
 let s:netrw_users_stl= &stl
endif
if !exists("s:netrw_users_ls")
 let s:netrw_users_ls= &laststatus
endif

" set up User9 highlighting as needed
let keepa= @a
redir @a
try
 hi User9
catch /^Vim\%((\a+)\)=:E411/
 if &bg == "dark"
 hi User9 ctermfg=yellow ctermbg=blue guifg=yellow guibg=blue
 else
 hi User9 ctermfg=yellow ctermbg=blue guibg=yellow guifg=blue
 endif
endtry
redir END
let @a= keepa
endif

```

```

" set up status line (may use User9 highlighting)
" insure that windows have a statusline
" make sure statusline is displayed
let &stl=a:statline
setlocal laststatus=2
" call Decho("stl=".&stl)
redraw

" call Dret("SetupNetrwStatusLine : stl=".&stl)
endfun

" -----
" Remote Directory Browsing Support: {{{1
" =====

" -----
" s:NetrwRemoteListing: {{{2
fun! s:NetrwRemoteListing()
" call Dfunc("s:NetrwRemoteListing() b:netrw_curdir<" .b:netrw_curdir.">")

call s:RemotePathAnalysis(b:netrw_curdir)

" sanity check:
if exists("b:netrw_method") && b:netrw_method =~ '[235]'
" call Decho("b:netrw_method=" .b:netrw_method)
if !executable("ftp")
if !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"this system doesn't support remote directory listing via ftp",18)
endif
call s:NetrwOptionRestore("w:")
" call Dret("s:NetrwRemoteListing")
return
endif

elseif !exists("g:netrw_list_cmd") || g:netrw_list_cmd == "
if !exists("g:netrw_quiet")
if g:netrw_list_cmd == ""
call netrw#ErrorMsg(s:ERROR,g:netrw_ssh_cmd." is not executable on your system",47)
else
call netrw#ErrorMsg(s:ERROR,"this system doesn't support remote directory listing via ".g:netrw_list_cmd,19)
endif
endif

call s:NetrwOptionRestore("w:")
" call Dret("s:NetrwRemoteListing")
return
endif " (remote handling sanity check)

```





```

" call Decho("normal ftp cleanup")
exe 'silent! keepjumps '.w:netrw_bannercnt.', $s/^\(\%(\S\+|s\+)\){7}\S\+)\s\+(\(\S.*\))$/\2/e'
exe "silent! keepjumps ".w:netrw_bannercnt.', $g/ -> /s# -> .*/$#/#e'
exe "silent! keepjumps ".w:netrw_bannercnt.', $g/ -> /s# -> .*/$#/#e'
endif
endif

else
" use ssh to get remote file listing {{{3
" call Decho("use ssh to get remote file listing: s:path<".s:path.">")
let listcmd= s:MakeSshCmd(g:netrw_list_cmd)
" call Decho("listcmd<".listcmd."> (using g:netrw_list_cmd)")
if g:netrw_scp_cmd =~ '^pscp'
" call Decho("1: exe silent r! ".shellescape(listcmd.s:path, 1))
exe "silent r! ".listcmd.shellescape(s:path, 1)
" remove rubbish and adjust listing format of 'pscp' to 'ssh ls -FLa' like
g/^\Listing directory/d
g/^\d[-rwx][-rwx][-rwx]/s+$+/@+e
silent g/^\d[-rwx][-rwx][-rwx]/s+$+/@+e
if g:netrw_liststyle != s:LONGLIST
g/^\[dls-][-rwx][-rwx][-rwx]/s/^\.*\s\(\S\+)\$/\1/e
endif
else
if s:path == ""
" call Decho("2: exe silent r! ".listcmd)
exe "silent r! ".listcmd
else
" call Decho("3: exe silent r! ".listcmd.' '.shellescape(s:path,1))
exe "silent r! ".listcmd.' '.shellescape(s:path,1)
" call Decho("listcmd<".listcmd."> path<".s:path.">")
endif
endif

" cleanup
if g:netrw_ftp_browse_reject != ""
" call Decho("(cleanup) exe silent! g/".g:netrw_ssh_browse_reject."/keepjumps d")
exe "silent! g/".g:netrw_ssh_browse_reject."/keepjumps d"
endif
endif

if w:netrw_liststyle == s:LONGLIST
" do a long listing; these substitutions need to be done prior to sorting {{{3
" call Decho("fix long listing:")

if s:method == "ftp"
" cleanup
exe "keepjumps ".w:netrw_bannercnt
while getline('.') =~ g:netrw_ftp_browse_reject

```

```

keepjumps d
endwhile
" if there's no ../ listed, then put ./ and ../ in
let line1= line(".")
keepjumps 1
silent keepjumps call search('^\.\.\\|%\(\s\|$\)', 'W')
let line2= line(".")
if line2 == 0
exe 'keepjumps 'w:netrw_bannercnt."put='./'"
if b:netrw_curdir != '/'
exe 'keepjumps 'w:netrw_bannercnt."put='./'"
endif
endif
exe "keepjumps ".line1
keepjumps norm! 0
endif

if search('^d\{2}-d\{2}-d\{2}\s', 'n') " M$ ftp site cleanup
" call Decho("M$ ftp site listing cleanup")
exe 'silent! keepjumps 'w:netrw_bannercnt.', $s/^\(d\{2}-d\{2}-
\d\{2}\s+\d\+:\d\+[AaPp][Mm]\s+\|<DIR>\|d\+\)\s+\)\(\w.*\)$\2t1/'
elseif exists("w:netrw_bannercnt") && w:netrw_bannercnt <= line("$")
" call Decho("normal ftp site listing cleanup: bannercnt="w:netrw_bannercnt." line($)="line("$"))
exe 'silent keepjumps 'w:netrw_bannercnt.', $s/ -> .*$/e'
exe 'silent keepjumps 'w:netrw_bannercnt.', $s/^\(\%(\S\+|\s+\)\{7\}\S\+\)\s+\(\S.*\)$\2t1/e'
exe 'silent keepjumps 'w:netrw_bannercnt
endif
endif

" if exists("w:netrw_bannercnt") && w:netrw_bannercnt <= line("$") " Decho
" exe "keepjumps 'w:netrw_bannercnt.', $g/^\./call Decho("listing: ".getline("."))'
" endif " Decho
" call Dret("s:NetrwRemoteListing")
endfun

" -----
" s:NetrwRemoteRm: remove/delete a remote file or directory {{{2
fun! s:NetrwRemoteRm(usrhost,path) range
" call Dfunc("s:NetrwRemoteRm(usrhost<".a:usrhost."> path<".a:path.">) virtcol=".virtcol("."))
" call Decho("firstline="a:firstline." lastline="a:lastline)
let svpos= netrw#NetrwSavePosn()

let all= 0
if exists("s:netrwmarkfilelist_{bufnr('%')}")
" remove all marked files
" call Decho("remove all marked files with bufnr#".bufnr("%"))
for fname in s:netrwmarkfilelist_{bufnr("%')}
let ok= s:NetrwRemoteRmFile(a:path,fname,all)

```

```

if ok =~ 'q\[uit]'
 break
elseif ok =~ 'a\[II]'
 let all= 1
endif
endfor
call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)

else
" remove files specified by range
" call Decho("remove files specified by range")

" preparation for removing multiple files/directories
let ctr= a:firstline

" remove multiple files and directories
while ctr <= a:lastline
 exe ctr
 let ok= s:NetrwRemoteRmFile(a:path,s:NetrwGetWord(),all)
 if ok =~ 'q\[uit]'
 break
 elseif ok =~ 'a\[II]'
 let all= 1
 endif
 let ctr= ctr + 1
endwhile
endif

" refresh the (remote) directory listing
" call Decho("refresh remote directory listing")
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'/'))
call netrw#NetrwRestorePosn(svpos)

" call Dret("s:NetrwRemoteRm")
endfun

" -----
" s:NetrwRemoteRmFile: { { 2
fun! s:NetrwRemoteRmFile(path,rmfile,all)
" call Dfunc("s:NetrwRemoteRmFile(path<"a:path."> rmfile<"a:rmfile.">) all="a:all)

let all= a:all
let ok = ""

if a:rmfile !~ '^"' && (a:rmfile =~ '@$' || a:rmfile !~ '[\V]$')
" attempt to remove file
" call Decho("attempt to remove file (all=".all.")")
if !all

```

```

echohl Statement
" call Decho("case all=0:")
call inputsave()
let ok= input("Confirm deletion of file<".a:rmfile."> ", "[{y(es)},n(o),a(l),q(uit)] ")
call inputrestore()
echohl NONE
if ok == ""
 let ok="no"
endif
let ok= substitute(ok, \[{y(es)},n(o),a(l),q(uit)]s*', "", 'e')
if ok =~ 'a%[ll]'
 let all= 1
endif
endif

if all || ok =~ 'y%[es]' || ok == ""
" call Decho("case all=".all." or ok<".ok.">".(exists("w:netrw_method")? ': netrw_method='.w:netrw_method :
""))
if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
" call Decho("case ftp:")
let path= a:path
if path =~ '^a\+://'
 let path= substitute(path, '^a\+://[^/]\+', "")
endif
silent! keepjumps .,$d
call s:NetrwRemoteFtpCmd(path, "delete ". "" .a:rmfile. "")
else
" call Decho("case ssh: g:netrw_rm_cmd<".g:netrw_rm_cmd.">")
let netrw_rm_cmd= s:MakeSshCmd(g:netrw_rm_cmd)
" call Decho("netrw_rm_cmd<".netrw_rm_cmd.">")
if !exists("b:netrw_curdir")
call netrw#ErrorMsg(s:ERROR, "for some reason b:netrw_curdir doesn't exist!", 53)
let ok="q"
else
let remotedir= substitute(b:netrw_curdir, '^.*//[^\+]/+/(.*)$', '\1', "")
" call Decho("netrw_rm_cmd<".netrw_rm_cmd.">")
" call Decho("remotedir<".remotedir.">")
" call Decho("rmfile<".a:rmfile.">")
if remotedir != ""
let netrw_rm_cmd= netrw_rm_cmd. " ".shellescape(fnameescape(remotedir.a:rmfile))
else
let netrw_rm_cmd= netrw_rm_cmd. " ".shellescape(fnameescape(a:rmfile))
endif
" call Decho("call system(".netrw_rm_cmd.")")
let ret= system(netrw_rm_cmd)
if ret != 0
call netrw#ErrorMsg(s:WARNING, "cmd<".netrw_rm_cmd."> failed", 60)
endif
endif

```

```

" call Decho("returned=".ret." errcode=".v:shell_error)
 endif
 endif
elseif ok =~ 'q\[uit]'
" call Decho("ok==".ok)
 break
 endif

else
" attempt to remove directory
" call Decho("attempt to remove directory")
if !all
call inputsave()
let ok= input("Confirm deletion of directory<".a:rmfile."> ", "[{y(es)},n(o),a(ll),q(uit)] ")
call inputrestore()
if ok == ""
 let ok="no"
 endif
let ok= substitute(ok, "[{y(es)},n(o),a(ll),q(uit)]s*",',e')
if ok =~ 'a\[ll]'
 let all= 1
 endif
endif

if all || ok =~ 'y\[es]' || ok == ""
if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
 call s:NetrwRemoteFtpCmd(a:path,"rmdir ".a:rmfile)
else
 let rmfile = substitute(a:path.a:rmfile,'$',",")
 let netrw_rmdir_cmd = s:MakeSshCmd(s:WinPath(g:netrw_rmdir_cmd)).' '.shellescape(s:WinPath(rmfile))
" call Decho("attempt to remove dir: system(".netrw_rmdir_cmd.")")
 let ret= system(netrw_rmdir_cmd)
" call Decho("returned=".ret." errcode=".v:shell_error)

 if v:shell_error != 0
" call Decho("v:shell_error not 0")
 let netrw_rmfile_cmd= s:MakeSshCmd(s:WinPath(g:netrw_rmfile_cmd)).'
 .shellescape(s:WinPath(substitute(rmfile,'[\\]$',',e')))
" call Decho("2nd attempt to remove dir: system(".netrw_rmfile_cmd.")")
 let ret= system(netrw_rmfile_cmd)
" call Decho("returned=".ret." errcode=".v:shell_error)

 if v:shell_error != 0 && !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",22)
 endif
 endif
endif
endif
endif

```

```

elseif ok =~ 'q\%[uit]'
 break
endif
endif

" call Dret("s:NetrwRemoteRmFile ".ok)
return ok
endfun

" -----
" s:NetrwRemoteFtpCmd: unfortunately, not all ftp servers honor options for ls {{{2
" This function assumes that a long listing will be received. Size, time,
" and reverse sorts will be requested of the server but not otherwise
" enforced here.
fun! s:NetrwRemoteFtpCmd(path,listcmd)
" call Dfunc("NetrwRemoteFtpCmd(path<"a:path."> listcmd<"a:listcmd.">) netrw_method="w:netrw_method)
" call Decho("line($)="line("$")." bannercnt="w:netrw_bannercnt)

" because WinXX ftp uses unix style input
let ffkeep= &ff
setlocal ma ff=unix noro
" call Decho("setlocal ma ff=unix noro")

" clear off any older non-banner lines
" note that w:netrw_bannercnt indexes the line after the banner
" call Decho('exe silent! keepjumps 'w:netrw_bannercnt.',,$d (clear off old non-banner lines)')
exe "silent! keepjumps "w:netrw_bannercnt.",,$d"

"
if w:netrw_method == 2 || w:netrw_method == 5
" ftp + <.netrc>: Method #2
if a:path != ""
 put ='cd \'".a:path.\'
endif
if exists("g:netrw_ftpextracmd")
 put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('.'))
endif
call setline(line("$")+1,a:listcmd)
" exe "keepjumps "w:netrw_bannercnt.',,$g/^./call Decho("ftp#".line(" ").": ".getline(" ").')'
if exists("g:netrw_port") && g:netrw_port != ""
" call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.',,$!"g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)." ".shellescape(g:netrw_port,1))
 exe s:netrw_silentxfer." keepjumps "w:netrw_bannercnt.',,$!"g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)." ".shellescape(g:netrw_port,1)
 else
" call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.',,$!"g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1))

```

```

exe s:netrw_silentxfer." keepjumps ".w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)
endif

".....
elseif w:netrw_method == 3
" ftp + machine,id,passwd,filename: Method #3
setlocal ff=unix
if exists("g:netrw_port") && g:netrw_port != ""
put ='open 'g:netrw_machine.' 'g:netrw_port
else
put ='open 'g:netrw_machine
endif

if exists("g:netrw_ftp") && g:netrw_ftp == 1
put =g:netrw_uid
put =\"'.s:netrw_passwd.\"'
else
put ='user \"'.g:netrw_uid.\" \"'.s:netrw_passwd.\"'
endif

if a:path != ""
put ='cd \"'.a:path.\"'
endif
if exists("g:netrw_ftpextracmd")
put =g:netrw_ftpextracmd
" call Decho("filter input: ".getline('.'))
endif
call setline(line("$")+1,a:listcmd)

" perform ftp:
"-i : turns off interactive prompting from ftp
"-n unix : DON'T use <.netrc>, even though it exists
"-n win32: quit being obnoxious about password
" exe w:netrw_bannercnt.',$g/^./call Decho("ftp#".line("."): ".getline(".)")'
" call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i -n")
exe s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i -n

".....
else
call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",23)
endif

" cleanup for Windows
if has("win32") || has("win95") || has("win64") || has("win16")
silent! keepjumps %s/r$/e
endif
if a:listcmd == "dir"

```



```

" infer directory/link based on the file permission string
silent! keepjumps g/d\%([-r][-w][-x])\{3}/s@$@/@
silent! keepjumps g/l\%([-r][-w][-x])\{3}/s$/@/
if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:WIDELIST || w:netrw_liststyle == s:TREELIST
 exe "silent! keepjumps ".w:netrw_bannercnt.',$s/^%\(\S\+\s\+\)\{8}/e'
endif
endif

" ftp's listing doesn't seem to include ./ or ../
if !search('^\.\/$\|s\.\.\/$', 'wn')
 exe 'keepjumps '.w:netrw_bannercnt
 put = './'
endif
if !search('^\.\/$\|s\.\.\.\/$', 'wn')
 exe 'keepjumps '.w:netrw_bannercnt
 put = '../'
endif

" restore settings
let &ff= ffkeep
" call Dret("NetrwRemoteFtpCmd")
endfun

" -----
" s:NetrwRemoteRename: rename a remote file or directory {{{2
fun! s:NetrwRemoteRename(usrhost,path) range
" call Dfunc("NetrwRemoteRename(usrhost<".a:usrhost."> path<".a:path.">)")

" preparation for removing multiple files/directories
let svpos = netrw#NetrwSavePosn()
let ctr = a:firstline
let rename_cmd = s:MakeSshCmd(g:netrw_rename_cmd)

" rename files given by the markfilelist
if exists("s:netrwmarkfilelist_{bufnr('%')}")
 for oldname in s:netrwmarkfilelist_{bufnr("%")}
" call Decho("oldname<".oldname.">")
if exists("subfrom")
 let newname= substitute(oldname,subfrom,subto,"")
" call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
else
 call inputsave()
 let newname= input("Moving ".oldname." to : ",oldname)
 call inputrestore()
 if newname =~ '^s/'
 let subfrom = substitute(newname,'^s\([^\/*]\)/.*$', '\1',)
 let subto = substitute(newname,'^s/[^\/*]\(.*\)/$', '\1',)
 let newname = substitute(oldname,subfrom,subto,"")

```

```

" call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
endif
endif

if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
call s:NetrwRemoteFtpCmd(a:path,"rename ".oldname." ".newname)
else
let oldname= shellescape(a:path.oldname)
let newname= shellescape(a:path.newname)
" call Decho("system(s:WinPath(".rename_cmd.") ".oldname.' '.newname.")")
let ret = system(s:WinPath(rename_cmd).' '.oldname.' '.newname)
endif

endifor
call s:NetrwUnMarkFile(1)

else

" attempt to rename files/directories
while ctr <= a:lastline
exe "keepjumps ".ctr

let oldname= s:NetrwGetWord()
" call Decho("oldname<".oldname.">")

call inputsave()
let newname= input("Moving ".oldname." to : ".oldname)
call inputrestore()

if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
call s:NetrwRemoteFtpCmd(a:path,"rename ".oldname." ".newname)
else
let oldname= shellescape(a:path.oldname)
let newname= shellescape(a:path.newname)
" call Decho("system(s:WinPath(".rename_cmd.") ".oldname.' '.newname.")")
let ret = system(s:WinPath(rename_cmd).' '.oldname.' '.newname)
endif

let ctr= ctr + 1
endwhile
endif

" refresh the directory
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'/'))
call netrw#NetrwRestorePosn(svpos)

" call Dret("NetrwRemoteRename")
endifun

```

```

" -----
" Local Directory Browsing Support: {{{1
" =====

" -----
" netrw#LocalBrowseCheck: {{{2
fun! netrw#LocalBrowseCheck(dirname)
" unfortunate interaction -- split window debugging can't be
" used here, must use D-echoRemOn or D-echoTabOn -- the BufEnter
" event triggers another call to LocalBrowseCheck() when attempts
" to write to the DBG buffer are made.
" The &ft == "netrw" test was installed because the BufEnter event
" would hit when re-entering netrw windows, creating unexpected
" refreshes (and would do so in the middle of NetrwSaveOptions(), too)
" call Decho("netrw#LocalBrowseCheck: isdir<".a:dirname.">".isdirectory(a:dirname))
if isdirectory(a:dirname)
" call Decho(" ft<".&ft."> b:netrw_curdir<".(exists("b:netrw_curdir"))? b:netrw_curdir : " doesn't exist").">
dirname<".a:dirname.">". line($)=" line("$)")
if &ft != "netrw" || (exists("b:netrw_curdir") && b:netrw_curdir != a:dirname)
silent! call s:NetrwBrowse(1,a:dirname)
elseif &ft == "netrw" && line("$") == 1
silent! call s:NetrwBrowse(1,a:dirname)
endif
endif
" not a directory, ignore it
endfun

" -----
" s:LocalListing: does the job of "ls" for local directories {{{2
fun! s:LocalListing()
" call Dfunc("s:LocalListing()")
" call Decho("&ma=".&ma)
" call Decho("&mod=".&mod)
" call Decho("&ro=".&ro)
" call Decho("bufname(%)<".bufname("%").">")

" if exists("b:netrw_curdir") |call Decho('b:netrw_curdir<'b:netrw_curdir.">') |else|call Decho("b:netrw_curdir
doesn't exist") |endif
" if exists("g:netrw_sort_by")|call Decho('g:netrw_sort_by<'g:netrw_sort_by.">')|else|call Decho("g:netrw_sort_by
doesn't exist")|endif

" get the list of files contained in the current directory
let dirname = escape(b:netrw_curdir,g:netrw_glob_escape)
if dirname =~ '\\\.'
let dirname = substitute(dirname,['^/]*\.\.','.','g')
endif
if dirname == "

```

```

let dirname = '/'
endif
let dirnamelen = strlen(dirname)
let filelist = glob(s:ComposePath(dirname,"*"))
" call Decho("glob(dirname<".dirname."/*>=".filelist)
if filelist != ""
let filelist= filelist."\\n"
endif
let filelist= filelist.glob(s:ComposePath(dirname,".*"))
" call Decho("glob(dirname<".dirname."/*>=".filelist)

" Coding choice: either elide ./ if present
" or include ./ if not present
if filelist =~ '[\\].[\\]=\\(\\n\\$)'
" elide /path/ from glob() entries if present
" call Decho("elide /path/ from glob entries if present")
let filelist = substitute(filelist,'\\n','t','g')
let filelist = substitute(filelist,'^[^t]+[\\].t',';')
let filelist = substitute(filelist,'[^t]+[\\].$',';')
let filelist = substitute(filelist,'t\\zs[^t]+[\\].t',';')
let filelist = substitute(filelist,'t','n','g')
endif
" call Decho("filelist<".filelist.">")
if filelist !~ '[\\].[\\]=\\(\\n\\$)'
" include ./ in the glob() entry if its missing
" call Decho("forcibly tacking on ..")
let filelist= filelist."\\n".s:ComposePath(dirname,"../")
" call Decho("filelist<".filelist.">")
endif
if dirname == '/'
" remove .. from filelist when current directory is root directory
" call Decho("remove .. from filelist")
let filelist= substitute(filelist,'\\.\\.\\n',';')
endif
" remove multiple contiguous newlines
let filelist= substitute(filelist,'\\n{2,}','n','ge')
if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
" change all \\s to /s
" call Decho('change all \\s to /s')
let filelist= substitute(filelist,'\\;/','g')
else
" escape all \\s to \\
" call Decho('escape all \\s to \\')
let filelist= substitute(filelist,'\\;','\\','g')
endif

" call Decho("(before while) dirname<".dirname.">")
" call Decho("(before while) dirnamelen<".dirnamelen.">")

```

```

" call Decho("(before while) filelist<".filelist.">")

while filelist != ""
if filelist =~ '\n'
let filename = substitute(filelist, '\n.*$', '', 'e')
let filelist = substitute(filelist, '^.\{-}\n\(.*)$', '\1', 'e')
else
let filename = filelist
let filelist = ""
endif
" call Decho(" ")
" call Decho("(while) filelist<".filelist.">")
" call Decho("(while) filename<".filename.">")

if getftype(filename) == "link"
" indicate a symbolic link
" call Decho("indicate <".filename."> is a symbolic link with trailing @")
let pfile= filename."@"

elseif getftype(filename) == "socket"
" indicate a socket
" call Decho("indicate <".filename."> is a socket with trailing =")
let pfile= filename."="

elseif getftype(filename) == "fifo"
" indicate a fifo
" call Decho("indicate <".filename."> is a fifo with trailing |")
let pfile= filename."|"

elseif isdirectory(filename)
" indicate a directory
" call Decho("indicate <".filename."> is a directory with trailing /")
let pfile= filename."/"

elseif exists("b:netrw_curdir") && b:netrw_curdir !~ '^.*://' && !isdirectory(filename)
if (has("win32") || has("win95") || has("win64") || has("win16"))
if filename =~ '\.[eE][xX][eE]$\| filename =~ '\.[cC][oO][mM]$\| filename =~ '\.[bB][aA][tT]$\|
" indicate an executable
" call Decho("indicate <".filename."> is executable with trailing *")
let pfile= filename."*"
else
" normal file
let pfile= filename
endif
elseif executable(filename)
" indicate an executable
" call Decho("indicate <".filename."> is executable with trailing *")
let pfile= filename."*"

```

```

else
 " normal file
 let pfile= filename
endif

else
 " normal file
 let pfile= filename
endif
" call Decho("pfile<".pfile."> (after *@/ appending)")

if pfile =~ '//$'
 let pfile= substitute(pfile,'//$', '/', 'e')
" call Decho("change // to /: pfile<".pfile.">")
endif
let pfile= strpart(pfile,dirnamelen)
let pfile= substitute(pfile,'^[\|]', '|', 'e')
" call Decho("filename<".filename.">")
" call Decho("pfile <".pfile.">")

if w:netrw_liststyle == s:LONGLIST
 let sz = getfsize(filename)
 let fsz = strpart(" ",1,15-s:Strlen(sz)).sz
 let pfile= pfile."\".t".fsz." ".strftime(g:netrw_timefmt,getftime(filename))
" call Decho("sz=" .sz." fsz=" .fsz)
endif

if g:netrw_sort_by =~ "^t"
 " sort by time (handles time up to 1 quintillion seconds, US)
" call Decho("getftime(" .filename.")=" .getftime(filename))
 let t = getftime(filename)
 let ft = strpart("000000000000000000",1,18-s:Strlen(t)).t
" call Decho("exe keepjumps put =" .ft.'/'.filename."")
 let ftpfile= ft.'/'.pfile
 keepjumps silent! put=ftpfile

elseif g:netrw_sort_by =~ "^s"
 " sort by size (handles file sizes up to 1 quintillion bytes, US)
" call Decho("getfsize(" .filename.")=" .getfsize(filename))
 let sz = getfsize(filename)
 let fsz = strpart("000000000000000000",1,18-s:Strlen(sz)).sz
" call Decho("exe keepjumps put =" .fsz.'/'.filename."")
 let fszpfile= fsz.'/'.pfile
 keepjumps silent! put=fszpfile

else
 " sort by name
" call Decho("exe keepjumps put =" .pfile."")

```

```

 keepjumps silent! put=pfile
endif
endwhile

" cleanup any windows mess at end-of-line
silent! keepjumps %s\r$/e
exe "setlocal ts=".g:netrw_maxfilenamelen
" call Decho("setlocal ts=".g:netrw_maxfilenamelen)

" call Dret("s:LocalListing")
endfun

" -----
" s:LocalBrowseShellCmdRefresh: this function is called after a user has {{2
" performed any shell command. The idea is to cause all local-browsing
" buffers to be refreshed after a user has executed some shell command,
" on the chance that s/he removed/created a file/directory with it.
fun! s:LocalBrowseShellCmdRefresh()
" call Dfunc("LocalBrowseShellCmdRefresh() browselist=".(exists("s:netrw_browselist"))?
string(s:netrw_browselist) : "empty")." ".tabpagenr("$")." tabs")
" determine which buffers currently reside in a tab
if !exists("s:netrw_browselist")
" call Dret("LocalBrowseShellCmdRefresh : browselist is empty")
return
endif
if !exists("w:netrw_bannercnt")
" call Dret("LocalBrowseShellCmdRefresh : don't refresh when focus not on netrw window")
return
endif
if exists("s:locbrowseshellcmd")
if s:locbrowseshellcmd
let s:locbrowseshellcmd= 0
" call Dret("LocalBrowseShellCmdRefresh : NetrwBrowse itself caused the refresh")
return
endif
let s:locbrowseshellcmd= 0
endif
let itab = 1
let buftablist = []
while itab <= tabpagenr("$")
let buftablist = buftablist + tabpagebuflist()
let itab = itab + 1
tabn
endwhile
" call Decho("buftablist".string(buftablist))
" call Decho("s:netrw_browselist<".(exists("s:netrw_browselist"))? string(s:netrw_browselist) : "").">")
" GO through all buffers on netrw_browselist (ie. just local-netrw buffers):
" | refresh any netrw window

```

```

" | wipe out any non-displaying netrw buffer
let curwin = winnr()
let ibl = 0
for ibuf in s:netrw_browselist
" call Decho("bufwinnr(".ibuf.") index(buftablist,".ibuf.")=".index(buftablist,ibuf))
if bufwinnr(ibuf) == -1 && index(buftablist,ibuf) == -1
" wipe out any non-displaying netrw buffer
" call Decho("wiping buf#" .ibuf,"<".bufname(ibuf).">")
exe "silent! bd ".fnameescape(ibuf)
call remove(s:netrw_browselist,ibl)
" call Decho("browselist=".string(s:netrw_browselist))
continue
elseif index(tabpagebuflist(),ibuf) != -1
" refresh any netrw buffer
" call Decho("refresh buf#" .ibuf.'-> win#'.bufwinnr(ibuf))
exe bufwinnr(ibuf)."wincmd w"
call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'./'))
endif
let ibl= ibl + 1
endfor
exe curwin."wincmd w"

" call Dret("LocalBrowseShellCmdRefresh")
endfun

" -----
" s:NetrwLocalRm: {{2
fun! s:NetrwLocalRm(path) range
" call Dfunc("s:NetrwLocalRm(path<".a:path.">")")
" call Decho("firstline=".a:firstline." lastline=".a:lastline)

" preparation for removing multiple files/directories
let ret = 0
let all = 0
let svpos = netrw#NetrwSavePosn()

if exists("s:netrwmarkfilelist_{bufnr('%')}")
" remove all marked files
" call Decho("remove all marked files")
for fname in s:netrwmarkfilelist_{bufnr("%")}
let ok= s:NetrwLocalRmFile(a:path,fname,all)
if ok =~ 'q%'[uit] || ok == "no"
break
elseif ok =~ 'a%'[II]
let all= 1
endif
endfor
call s:NetrwUnMarkFile(1)

```



```

else
" remove (multiple) files and directories
" call Decho("remove files in range [".a:firstline.", ".a:lastline."]")

let ctr = a:firstline
while ctr <= a:lastline
exe "keepjumps ".ctr

" sanity checks
if line(".") < w:netrw_bannercnt
let ctr= ctr + 1
continue
endif
let curword= s:NetrwGetWord()
if curword == "./" || curword == "../"
let ctr= ctr + 1
continue
endif
let ok= s:NetrwLocalRmFile(a:path,curword,all)
if ok =~ 'q\%[uit]' || ok == "no"
break
elseif ok =~ 'a\%[ll]'
let all= 1
endif
let ctr= ctr + 1
endwhile
endif

" refresh the directory
" call Decho("bufname<".bufname("%").">")
if bufname("%") != "NetrwMessage"
call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,./))
call netrw#NetrwRestorePosn(svpos)
endif

" call Dret("s:NetrwLocalRm")
endfun

" -----
" s:NetrwLocalRmFile: remove file fname given the path {{{2
" Give confirmation prompt unless all==1
fun! s:NetrwLocalRmFile(path,fname,all)
" call Dfunc("s:NetrwLocalRmFile(path<".a:path."> fname<".a:fname."> all="a:all)

let all= a:all
let ok = ""
norm! 0

```

```

let rmfile= s:ComposePath(a:path,a:fname)
" call Decho("rmfile<".rmfile.">")

if rmfile !~ '^"' && (rmfile =~ '@$' || rmfile !~ '[V]')
" attempt to remove file
" call Decho("attempt to remove file<".rmfile.">")
if !all
echohl Statement
call inputsave()
let ok= input("Confirm deletion of file<".rmfile."> ", "[{y(es)},n(o),a(ll),q(uit)] ")
call inputrestore()
echohl NONE
if ok == ""
let ok="no"
endif
" call Decho("response: ok<".ok.">")
let ok= substitute(ok, \[{y(es)},n(o),a(ll),q(uit)] s*, ',e')
" call Decho("response: ok<".ok."> (after sub)")
if ok =~ 'a\[ll]'
let all= 1
endif
endif

if all || ok =~ 'y\[es]' || ok == ""
let ret= s:NetrwDelete(rmfile)
" call Decho("errcode=".v:shell_error." ret=".ret)
endif

else
" attempt to remove directory
if !all
echohl Statement
call inputsave()
let ok= input("Confirm deletion of directory<".rmfile."> ", "[{y(es)},n(o),a(ll),q(uit)] ")
call inputrestore()
let ok= substitute(ok, \[{y(es)},n(o),a(ll),q(uit)] s*, ',e')
if ok == ""
let ok="no"
endif
if ok =~ 'a\[ll]'
let all= 1
endif
endif
let rmfile= substitute(rmfile, '[V]$', ',e')

if all || ok =~ 'y\[es]' || ok == ""
" call Decho("1st attempt: system(s:WinPath("g:netrw_local_rmdir.') '.shellescape(rmfile).')')
call system(s:WinPath(g:netrw_local_rmdir.') '.shellescape(rmfile))

```

```

" call Decho("v:shell_error=".v:shell_error)

if v:shell_error != 0
" call Decho("2nd attempt to remove directory<".rmfile.">")
let errcode= s:NetrwDelete(rmfile)
" call Decho("errcode=".errcode)

if errcode != 0
if has("unix")
" call Decho("3rd attempt to remove directory<".rmfile.">")
call system("rm ".shellescape(rmfile))
if v:shell_error != 0 && !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",34)
let ok="no"
endif
elseif !exists("g:netrw_quiet")
call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",35)
let ok="no"
endif
endif
endif
endif
endif

" call Dret("s:NetrwLocalRmFile ".ok)
return ok
endfun

" -----
" s:NetrwLocalRename: rename a remote file or directory {{{2
fun! s:NetrwLocalRename(path) range
" call Dfunc("NetrwLocalRename(path<".a:path.">)")

" preparation for removing multiple files/directories
let ctr = a:firstline
let svpos= netrw#NetrwSavePosn()

" rename files given by the markfilelist
if exists("s:netrwmarkfilelist_{bufnr('%')}")
for oldname in s:netrwmarkfilelist_{bufnr("%")}
" call Decho("oldname<".oldname.">")
if exists("subfrom")
let newname= substitute(oldname,subfrom,subto,")
" call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
else
call inputsave()
let newname= input("Moving ".oldname." to : ".oldname)
call inputrestore()

```

```

if newname =~ '^s/'
 let subfrom = substitute(newname, '^s^([^\s]*)/.*$', '\1', '')
 let subto = substitute(newname, '^s/[^\s]^(\.*/)$', '\1', '')
" call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
 let newname = substitute(oldname, subfrom, subto, '')
endif
endif
call rename(oldname, newname)
endifor
call s:NetrwUnmarkList(bufnr("%"), b:netrw_curdir)

else

" attempt to rename files/directories
while ctr <= a:lastline
 exe "keepjumps ".ctr

" sanity checks
if line(".") < w:netrw_bannercnt
 let ctr = ctr + 1
 continue
endif
let curword = s:NetrwGetWord()
if curword == "./" || curword == "../"
 let ctr = ctr + 1
 continue
endif

norm! 0
let oldname = s:ComposePath(a:path, curword)
" call Decho("oldname<".oldname.">")

call inputsave()
let newname = input("Moving ".oldname." to : ", substitute(oldname, /*$',", 'e'))
call inputrestore()

call rename(oldname, newname)
" call Decho("renaming <".oldname."> to <".newname.">")

let ctr = ctr + 1
endwhile
endif

" refresh the directory
" call Decho("refresh the directory listing")
call s:NetrwRefresh(1, s:NetrwBrowseChgDir(1, './'))
call netrw#NetrwRestorePosn(svpos)

```

```

" call Dret("NetrwLocalRename")
endfun

" -----
" s:LocalFastBrowser: handles setting up/taking down fast browsing for the local browser {{{2
"
" g:netrw_ Directory Is
" fastbrowse Local Remote
" slow 0 D D D=Deleting a buffer implies it will not be re-used (slow)
" med 1 D H H=Hiding a buffer implies it may be re-used (fast)
" fast 2 H H
"
" Deleting a buffer means that it will be re-loaded when examined, hence "slow".
" Hiding a buffer means that it will be re-used when examined, hence "fast".
" (re-using a buffer may not be as accurate)
fun! s:LocalFastBrowser()
" call Dfunc("LocalFastBrowser() g:netrw_fastbrowse=".g:netrw_fastbrowse)

" initialize browselist, a list of buffer numbers that the local browser has used
if !exists("s:netrw_browselist")
" call Decho("initialize s:netrw_browselist")
let s:netrw_browselist= []
endif

" append current buffer to fastbrowse list
if empty(s:netrw_browselist) || bufnr("%") > s:netrw_browselist[-1]
" call Decho("appendng current buffer to browselist")
call add(s:netrw_browselist,bufnr("%"))
" call Decho("browselist=".string(s:netrw_browselist))
endif

" enable autocmd events to handle refreshing/removing local browser buffers
" If local browse buffer is currently showing: refresh it
" If local browse buffer is currently hidden : wipe it
if !exists("s:netrw_browser_shellcmd") && g:netrw_fastbrowse <= 1
" call Decho("setting up local-browser shell command refresh")
let s:netrw_browser_shellcmd= 1
augroup AuNetrwShellCmd
au!
if (has("win32") || has("win95") || has("win64") || has("win16"))
" call Decho("autocmd: ShellCmdPost * call s:LocalBrowseShellCmdRefresh()")
au ShellCmdPost * call s:LocalBrowseShellCmdRefresh()
else
au ShellCmdPost,FocusGained * call s:LocalBrowseShellCmdRefresh()
" call Decho("autocmd: ShellCmdPost,FocusGained * call s:LocalBrowseShellCmdRefresh()")
endif
augroup END
endif
endif

```

```

" user must have changed fastbrowse to its fast setting, so remove
" the associated autocmd events
if g:netrw_fastbrowse > 1 && exists("s:netrw_browser_shellcmd")
" call Decho("remove AuNetrwShellCmd autocmd group")
unlet s:netrw_browser_shellcmd
augroup AuNetrwShellCmd
 au!
augroup END
augroup! AuNetrwShellCmd
endif

" call Dret("LocalFastBrowser : browselist<".string(s:netrw_browselist).">")
endfun

" -----
" Support Functions: {{{1
" -----

" netrw#ErrorMsg: {{{2
" 0=note = s:NOTE
" 1=warning = s:WARNING
" 2=error = s:ERROR
" Oct 12, 2008 : max errnum currently is 73
fun! netrw#ErrorMsg(level,msg,errnum)
" call Dfunc("netrw#ErrorMsg(level=".a:level." msg<".a:msg."> errnum=".a:errnum.")
g:netrw_use_errorwindow=".g:netrw_use_errorwindow)

if a:level == 1
 let level= "***warning** (netrw) "
elseif a:level == 2
 let level= "***error** (netrw) "
else
 let level= "***note** (netrw) "
endif
" call Decho("level=".level)

if g:netrw_use_errorwindow
" (default) netrw creates a one-line window to show error/warning
" messages (reliably displayed)

" record current window number for NetrwRestorePosn()'s benefit
let s:winBeforeErr= winnr()
" call Decho("s:winBeforeErr=".s:winBeforeErr)

" getting messages out reliably is just plain difficult!
" This attempt splits the current window, creating a one line window.
if bufexists("NetrwMessage") && bufwinnr("NetrwMessage") > 0

```

```

" call Decho("write to NetrwMessage buffer")
exe bufwinnr("NetrwMessage")."wincmd w"
" call Decho("setlocal ma noro")
setlocal ma noro
call setline(line("$")+1,level.a:msg)
$
else
" call Decho("create a NetrwMessage buffer window")
bo 1split
enew
setlocal bt=nofile
file NetrwMessage
" call Decho("setlocal ma noro")
setlocal ma noro
call setline(line("$"),level.a:msg)
endif
" call Decho("wrote msg<".level.a:msg."> to NetrwMessage win#".winnr())
if &fo !~ '[ta]'
syn clear
syn match netrwMesgNote "^\\|*note\\|*"
syn match netrwMesgWarning "^\\|*warning\\|*"
syn match netrwMesgError "^\\|*error\\|*"
hi link netrwMesgWarning WarningMsg
hi link netrwMesgError Error
endif
setlocal noma ro bh=wipe

else
" (optional) netrw will show messages using echomsg. Even if the
" message doesn't appear, at least it'll be recallable via :messages
" redraw!
if a:level == s:WARNING
echohl WarningMsg
elseif a:level == s:ERROR
echohl Error
endif
echomsg level.a:msg
" call Decho("echomsg ***netrw*** ".a:msg)
echohl None
endif

" call Dret("netrw#ErrorMsg")
endfun

" -----
" netrw#NetrwRestorePosn: restores the cursor and file position as saved by NetrwSavePosn() {{{2
fun! netrw#NetrwRestorePosn(...)
" call Dfunc("netrw#NetrwRestorePosn() a:0=".a:0." winnr=".(exists("w:netrw_winnr")? w:netrw_winnr : -1).")

```

```

line=".exists("w:netrw_line")? w:netrw_line : -1)." col=".exists("w:netrw_col")? w:netrw_col : -1)."
hline=".exists("w:netrw_hline")? w:netrw_hline : -1))
let eikeep= &ei
set ei=all
if expand("%") == "NetrwMessage"
 exe s:winBeforeErr."wincmd w"
endif

if a:0 > 0
 exe a:1
endif

" restore window
if exists("w:netrw_winnr")
" call Decho("restore window: exe silent! ".w:netrw_winnr."wincmd w")
 exe "silent! ".w:netrw_winnr."wincmd w"
endif
if v:shell_error == 0
 " as suggested by Bram M: redraw on no error
 " allows protocol error messages to remain visible
" redraw!
endif

" restore top-of-screen line
if exists("w:netrw_hline")
" call Decho("restore topofscreen: exe norm! ".w:netrw_hline."G0z")
 exe "norm! ".w:netrw_hline."G0z<CR>"
endif

" restore position
if exists("w:netrw_line") && exists("w:netrw_col")
" call Decho("restore posn: exe norm! ".w:netrw_line."G0".w:netrw_col."|")
 exe "norm! ".w:netrw_line."G0".w:netrw_col."|<bar>"
endif

let &ei= eikeep
" call Dret("netrw#NetrwRestorePosn")
endfun

" -----
" netrw#NetrwSavePosn: saves position of cursor on screen {{{2
fun! netrw#NetrwSavePosn()
" call Dfunc("netrw#NetrwSavePosn()")
" Save current line and column
let w:netrw_winnr= winnr()
let w:netrw_line = line(".")
let w:netrw_col = virtcol(".")

```



```

" Save top-of-screen line
norm! H0
let w:netrw_hline= line(".")

" set up string holding position parameters
let ret = "let w:netrw_winnr=".w:netrw_winnr."|let w:netrw_line=".w:netrw_line."|let
w:netrw_col=".w:netrw_col."|let w:netrw_hline=".w:netrw_hline

call netrw#NetrwRestorePosn()
" call Dret("netrw#NetrwSavePosn : winnr=".w:netrw_winnr." line=".w:netrw_line." col=".w:netrw_col."
hline=".w:netrw_hline)
return ret
endfun

" -----
" netrw#RFC2396: converts %xx into characters {{{2
fun! netrw#RFC2396(fname)
" call Dfunc("netrw#RFC2396(fname<".a:fname.">")")
let fname = escape(substitute(a:fname, '%\(\x\)', '\=nr2char("0x".submatch(1))', 'ge'), " \t")
" call Dret("netrw#RFC2396 ".fname)
return fname
endfun

" -----
" s:ComposePath: Appends a new part to a path taking different systems into consideration {{{2
fun! s:ComposePath(base,subdir)
" call Dfunc("s:ComposePath(base<".a:base."> subdir<".a:subdir.">")")

if(has("amiga"))
" call Decho("amiga")
let ec = a:base[strlen(a:base)-1]
if ec != '/' && ec != ':'
let ret = a:base . "/" . a:subdir
else
let ret = a:base . a:subdir
endif

elseif a:subdir =~ '\a:[\[\][^\\]' && (has("win32") || has("win95") || has("win64") || has("win16"))
" call Decho("windows")
let ret= a:subdir

elseif a:base =~ '^a\+://'
" call Decho("remote linux/macos")
let urlbase = substitute(a:base, '^(\a\+://\{-}\)^(\.*\)$', '\1', '')
let curpath = substitute(a:base, '^(\a\+://\{-}\)^(\.*\)$', '\2', '')
if a:subdir == './'
if curpath =~ '[^/][^/]\+/$'
let curpath= substitute(curpath, '[^/]\+/$', '')

```

```

else
 let curpath=""
endif
let ret= urlbase.curpath
else
 let ret= urlbase.curpath.a:subdir
endif
" call Decho("urlbase<".urlbase.">")
" call Decho("curpath<".curpath.">")
" call Decho("ret<".ret.">")

else
" call Decho("local linux/macos")
let ret = substitute(a:base."/".a:subdir,"//","/", "g")
if a:base =~ '^/'
 " keeping initial '/' for the benefit of network share listing support
 let ret= '/' .ret
endif
let ret= simplify(ret)
endif

" call Dret("s:ComposePath ".ret)
return ret
endfun

" -----
" s:FileReadable: o/s independent filereadable {{{2
fun! s:FileReadable(fname)
" call Dfunc("s:FileReadable(fname<".a:fname.">")

if g:netrw_cygwin
 let ret= filereadable(substitute(a:fname,'cygdrive^\(.\)',\1:/',))
else
 let ret= filereadable(a:fname)
endif

" call Dret("s:FileReadable ".ret)
return ret
endfun

" -----
" s:GetTempfile: gets a tempname that'll work for various o/s's {{{2
" Places correct suffix on end of temporary filename,
" using the suffix provided with fname
fun! s:GetTempfile(fname)
" call Dfunc("s:GetTempfile(fname<".a:fname.">")

if !exists("b:netrw_tmpfile")

```

```

" get a brand new temporary filename
let tmpfile= tempname()
" call Decho("tmpfile<".tmpfile."> : from tempname()")

let tmpfile= substitute(tmpfile,'\','ge')
" call Decho("tmpfile<".tmpfile."> : chgd any \\ -> /")

" sanity check -- does the temporary file's directory exist?
if !isdirectory(substitute(tmpfile,['^/]+\$',','e'))
" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
call netrw#ErrorMsg(s:ERROR,"your <".substitute(tmpfile,['^/]+\$',','e')." directory is missing!",2)
" call Dret("s:GetTempfile getcwd<".getcwd().">")
return ""
endif

" let netrw#NetSource() know about the tmpfile
let s:netrw_tmpfile= tmpfile " used by netrw#NetSource() and netrw#NetrwBrowseX()
" call Decho("tmpfile<".tmpfile."> s:netrw_tmpfile<".s:netrw_tmpfile.">")

" o/s dependencies
if g:netrw_cygwin != 0
let tmpfile = substitute(tmpfile,'^(\a):','cygdrive/1','e')
elseif has("win32") || has("win95") || has("win64") || has("win16")
if !exists("+shellslash") || !&ssl
let tmpfile = substitute(tmpfile,'/','\','g')
endif
else
let tmpfile = tmpfile
endif
let b:netrw_tmpfile= tmpfile
" call Decho("o/s dependent fixed tempname<".tmpfile.">")
else
" re-use temporary filename
let tmpfile= b:netrw_tmpfile
" call Decho("tmpfile<".tmpfile."> re-using")
endif

" use fname's suffix for the temporary file
if a:fname != ""
if a:fname =~ '\.[^./]\+$'
" call Decho("using fname<".a:fname.">'s suffix")
if a:fname =~ '.tar.gz' || a:fname =~ '.tar.bz2'
let suffix = ".tar".substitute(a:fname,'^.*\(\.[^./]\+\)$','1','e')
else
let suffix = substitute(a:fname,'^.*\(\.[^./]\+\)$','1','e')
endif
" call Decho("suffix<".suffix.">")
let tmpfile= substitute(tmpfile,'\tmp$',','e')

```

```

" call Decho("chgd tmpfile<".tmpfile."> (removed any .tmp suffix)")
let tmpfile .= suffix
" call Decho("chgd tmpfile<".tmpfile."> (added ".suffix." suffix) netrw_fname<".b:netrw_fname.">")
let s:netrw_tmpfile= tmpfile " supports netrw#NetSource()
endif
endif

" call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
" call Dret("s:GetTempfile <".tmpfile.">")
return tmpfile
endfun

" -----
" s:MakeSshCmd: transforms input command using USEPORT HOSTNAME into {{{2
" a correct command for use with a system() call
fun! s:MakeSshCmd(sshcmd)
" call Dfunc("s:MakeSshCmd(sshcmd<".a:sshcmd.">) user<".s:user."> machine<".s:machine.">")
let sshcmd = substitute(a:sshcmd,\>,s:user.s:machine,")
if exists("g:netrw_port") && g:netrw_port != ""
let sshcmd= substitute(sshcmd,"USEPORT",g:netrw_sshport.' 'g:netrw_port,")
elseif exists("s:port") && s:port != ""
let sshcmd= substitute(sshcmd,"USEPORT",g:netrw_sshport.' 's:port,")
else
let sshcmd= substitute(sshcmd,"USEPORT ","",")
endif
" call Dret("s:MakeSshCmd <".sshcmd.">")
return sshcmd
endfun

" -----
" s:NetrwBMSHOW: {{{2
fun! s:NetrwBMSHOW()
" call Dfunc("s:NetrwBMSHOW()")
redir => bmshowraw
menu
redir END
let bmshowlist = split(bmshowraw, '\n')
if bmshowlist != []
let bmshowfuncs= filter(bmshowlist, 'v:val =~ "<SNR>\d\|+_BMSHOW()")
if bmshowfuncs != []
let bmshowfunc = substitute(bmshowfuncs[0], '^.*:\(call.*BMSHOW()\).*$', '\1,')
if bmshowfunc =~ '^call.*BMSHOW()'
exe "silent! ".bmshowfunc
endif
endif
endif
" call Dret("s:NetrwBMSHOW : bmshowfunc<".(exists("bmshowfunc"))? bmshowfunc : 'n/a').">")
endfun

```

```

" -----
" s:NetrwDelete: Deletes a file. {{ {2
" Uses Steve Hall's idea to insure that Windows paths stay
" acceptable. No effect on Unix paths.
" Examples of use: let result= s:NetrwDelete(path)
fun! s:NetrwDelete(path)
" call Dfunc("s:NetrwDelete(path<".a:path.">")

let path = s:WinPath(a:path)
if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
if exists("+shellslash")
let sskeep= &shellslash
setlocal noshellslash
let result = delete(path)
let &shellslash = sskeep
else
" call Decho("exe let result= ".a:cmd."("".path."")")
let result= delete(path)
endif
else
" call Decho("let result= delete("".path."")")
let result= delete(path)
endif
if result < 0
call netrw#ErrorMsg(s:WARNING,"delete("".path."") failed!",71)
endif

" call Dret("s:NetrwDelete ".result)
return result
endfun

" -----
" s:NetrwEnew: opens a new buffer, passes netrw buffer variables through {{ {2
fun! s:NetrwEnew(curdir)
" call Dfunc("s:NetrwEnew(curdir<".a:curdir.">) buf#".bufnr("%").<".bufname("%").>")

" grab a function-local-variable copy of buffer variables
if exists("b:netrw_bannercnt") |let netrw_bannercnt = b:netrw_bannercnt |endif
if exists("b:netrw_browser_active") |let netrw_browser_active = b:netrw_browser_active |endif
if exists("b:netrw_cpf") |let netrw_cpf = b:netrw_cpf |endif
if exists("b:netrw_curdir") |let netrw_curdir = b:netrw_curdir |endif
if exists("b:netrw_explore_bufnr") |let netrw_explore_bufnr = b:netrw_explore_bufnr |endif
if exists("b:netrw_explore_indx") |let netrw_explore_indx = b:netrw_explore_indx |endif
if exists("b:netrw_explore_line") |let netrw_explore_line = b:netrw_explore_line |endif
if exists("b:netrw_explore_list") |let netrw_explore_list = b:netrw_explore_list |endif
if exists("b:netrw_explore_listlen")|let netrw_explore_listlen = b:netrw_explore_listlen|endif
if exists("b:netrw_explore_mtchcnt")|let netrw_explore_mtchcnt = b:netrw_explore_mtchcnt|endif

```

```

if exists("b:netrw_fname") |let netrw_fname = b:netrw_fname |endif
if exists("b:netrw_lastfile") |let netrw_lastfile = b:netrw_lastfile |endif
if exists("b:netrw_liststyle") |let netrw_liststyle = b:netrw_liststyle |endif
if exists("b:netrw_method") |let netrw_method = b:netrw_method |endif
if exists("b:netrw_option") |let netrw_option = b:netrw_option |endif
if exists("b:netrw_prvdir") |let netrw_prvdir = b:netrw_prvdir |endif

call s:NetrwOptionRestore("w:")
" call Decho("generate a buffer with keepjumps keepalt anew!")
keepjumps keepalt anew!
call s:NetrwOptionSave("w:")

" copy function-local-variables to buffer variable equivalents
if exists("netrw_bannercnt") |let b:netrw_bannercnt = netrw_bannercnt |endif
if exists("netrw_browser_active") |let b:netrw_browser_active = netrw_browser_active |endif
if exists("netrw_cpf") |let b:netrw_cpf = netrw_cpf |endif
if exists("netrw_curdir") |let b:netrw_curdir = netrw_curdir |endif
if exists("netrw_explore_bufnr") |let b:netrw_explore_bufnr = netrw_explore_bufnr |endif
if exists("netrw_explore_indx") |let b:netrw_explore_indx = netrw_explore_indx |endif
if exists("netrw_explore_line") |let b:netrw_explore_line = netrw_explore_line |endif
if exists("netrw_explore_list") |let b:netrw_explore_list = netrw_explore_list |endif
if exists("netrw_explore_listlen")|let b:netrw_explore_listlen = netrw_explore_listlen|endif
if exists("netrw_explore_mtchcnt")|let b:netrw_explore_mtchcnt = netrw_explore_mtchcnt|endif
if exists("netrw_fname") |let b:netrw_fname = netrw_fname |endif
if exists("netrw_lastfile") |let b:netrw_lastfile = netrw_lastfile |endif
if exists("netrw_liststyle") |let b:netrw_liststyle = netrw_liststyle |endif
if exists("netrw_method") |let b:netrw_method = netrw_method |endif
if exists("netrw_option") |let b:netrw_option = netrw_option |endif
if exists("netrw_prvdir") |let b:netrw_prvdir = netrw_prvdir |endif

let b:netrw_curdir= a:curdir
if b:netrw_curdir =~ '/'$'
if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
file NetrwTreeListing
nno <silent> <buffer> [:silent call <SID>TreeListMove([']<cr>
nno <silent> <buffer>] :silent call <SID>TreeListMove(']<cr>
else
exe "silent! keepalt file ".fnameescape(b:netrw_curdir)
endif
endif

" call Dret("s:NetrwEnew : buf#" . bufnr("% ") . "<" . bufname("% ") . "> expand(%)" . expand("% ") . ">
expand(#)" . expand("# ") . ">")
endfun

" -----
" s:NetrwSaveWordPosn: used to keep cursor on same word after refresh, {{{2
" changed sorting, etc. Also see s:NetrwRestoreWordPosn().

```

```

fun! s:NetrwSaveWordPosn()
" call Dfunc("NetrwSaveWordPosn()")
let s:netrw_saveword= '^'.fnameescape(getline('.')).'$'
" call Dret("NetrwSaveWordPosn : saveword<".s:netrw_saveword.">")
endfun

" -----
" s:NetrwRestoreWordPosn: used to keep cursor on same word after refresh, {{{2
" changed sorting, etc. Also see s:NetrwSaveWordPosn().
fun! s:NetrwRestoreWordPosn()
" call Dfunc("NetrwRestoreWordPosn()")
silent! call search(s:netrw_saveword,'w')
" call Dret("NetrwRestoreWordPosn")
endfun

" -----
" s:RestoreBufVars: {{{2
fun! s:RestoreBufVars()
" call Dfunc("s:RestoreBufVars()")

if exists("s:netrw_curdir") |let b:netrw_curdir = s:netrw_curdir |endif
if exists("s:netrw_lastfile") |let b:netrw_lastfile = s:netrw_lastfile |endif
if exists("s:netrw_method") |let b:netrw_method = s:netrw_method |endif
if exists("s:netrw_fname") |let b:netrw_fname = s:netrw_fname |endif
if exists("s:netrw_machine") |let b:netrw_machine = s:netrw_machine |endif
if exists("s:netrw_browser_active")|let b:netrw_browser_active = s:netrw_browser_active|endif

" call Dret("s:RestoreBufVars")
endfun

" -----
" s:RemotePathAnalysis: {{{2
fun! s:RemotePathAnalysis(dirname)
" call Dfunc("s:RemotePathAnalysis()")

let dirpat = '\(\w\{-}\):/\(\w\{+}@)\=([\^:#]\{+})%([:##]\(\d\{+})\)=\(\.^\)*$'
let s:method = substitute(a:dirname,dirpat,'\1,')
let s:user = substitute(a:dirname,dirpat,'\2,')
let s:machine = substitute(a:dirname,dirpat,'\3,')
let s:port = substitute(a:dirname,dirpat,'\4,')
let s:path = substitute(a:dirname,dirpat,'\5,')
let s:fname = substitute(a:dirname,'^\.*\ze.',";,")

" call Decho("set up s:method <".s:method.">")
" call Decho("set up s:user <".s:user.">")
" call Decho("set up s:machine<".s:machine.">")
" call Decho("set up s:port <".s:port.">")
" call Decho("set up s:path <".s:path.">")

```

```

" call Decho("set up s:fname <".s:fname .">")

" call Dret("s:RemotePathAnalysis")
endfun

" -----
" s:RemoteSystem: runs a command on a remote host using ssh {{{2
" Returns status
" Runs system() on
" [cd REMOTEDIRPATH;] a:cmd
" Note that it doesn't do shellescape(a:cmd)!
fun! s:RemoteSystem(cmd)
" call Dfunc("s:RemoteSystem(cmd<".a:cmd.">)")
if !executable(g:netrw_ssh_cmd)
call netrw#ErrorMsg(s:ERROR,"g:netrw_ssh_cmd<".g:netrw_ssh_cmd."> is not executable!",52)
elseif !exists("b:netrw_curdir")
call netrw#ErrorMsg(s:ERROR,"for some reason b:netrw_curdir doesn't exist!",53)
else
let cmd = s:MakeSshCmd(g:netrw_ssh_cmd." USEPORT HOSTNAME")
let remotedir= substitute(b:netrw_curdir,'^.*#[^\|]+\^(.*)$',\1,")
if remotedir != ""
let cmd= cmd.' cd '.shellescape(remotedir).";"
else
let cmd= cmd.' '
endif
let cmd= cmd.a:cmd
" call Decho("call system(".cmd.")")
let ret= system(cmd)
endif
" call Dret("s:RemoteSystem ".ret)
return ret
endfun

" -----
" s:RestoreWinVars: (used by Explore() and NetrwSplit()) {{{2
fun! s:RestoreWinVars()
" call Dfunc("s:RestoreWinVars()")
if exists("s:bannercnt") |let w:netrw_bannercnt = s:bannercnt |unlet s:bannercnt |endif
if exists("s:col") |let w:netrw_col = s:col |unlet s:col |endif
if exists("s:curdir") |let w:netrw_curdir = s:curdir |unlet s:curdir |endif
if exists("s:explore_bufnr") |let w:netrw_explore_bufnr = s:explore_bufnr |unlet s:explore_bufnr |endif
if exists("s:explore_indx") |let w:netrw_explore_indx = s:explore_indx |unlet s:explore_indx |endif
if exists("s:explore_line") |let w:netrw_explore_line = s:explore_line |unlet s:explore_line |endif
if exists("s:explore_listlen")|let w:netrw_explore_listlen = s:explore_listlen|unlet s:explore_listlen|endif
if exists("s:explore_list") |let w:netrw_explore_list = s:explore_list |unlet s:explore_list |endif
if exists("s:explore_mtchcnt")|let w:netrw_explore_mtchcnt = s:explore_mtchcnt|unlet s:explore_mtchcnt|endif
if exists("s:fpl") |let w:netrw_fpl = s:fpl |unlet s:fpl |endif
if exists("s:hline") |let w:netrw_hline = s:hline |unlet s:hline |endif

```



```

if exists("s:line") |let w:netrw_line = s:line |unlet s:line |endif
if exists("s:liststyle") |let w:netrw_liststyle = s:liststyle |unlet s:liststyle |endif
if exists("s:method") |let w:netrw_method = s:method |unlet s:method |endif
if exists("s:prvdir") |let w:netrw_prvdir = s:prvdir |unlet s:prvdir |endif
if exists("s:treedict") |let w:netrw_treedict = s:treedict |unlet s:treedict |endif
if exists("s:treetop") |let w:netrw_treetop = s:treetop |unlet s:treetop |endif
if exists("s:winnr") |let w:netrw_winnr = s:winnr |unlet s:winnr |endif
" call Dret("s:RestoreWinVars")
endfun

" -----
" s:Rexplore: implements returning from a buffer to a netrw directory {{{2
"
" s:SetRexDir() sets up <2-leftmouse> maps (if g:netrw_retmap
" is true) and a command, :Rexplore, which call this function.
"
" s:nbcd_curpos_{bufnr('%')} is set up by s:NetrwBrowseChgDir()
fun! s:NetrwRexplore(islocal,dirname)
" call Dfunc("s:NetrwRexplore(islocal=".a:islocal." dirname<".a:dirname.">)")
if a:islocal
call netrw#LocalBrowseCheck(a:dirname)
else
call s:NetrwBrowse(0,a:dirname)
endif
if exists("s:nbcd_curpos_{bufnr('%')}")
call netrw#NetrwRestorePosn(s:nbcd_curpos_{bufnr('%')})
unlet s:nbcd_curpos_{bufnr('%')}
endif
" call Dret("s:NetrwRexplore")
endfun

" -----
" s:SaveBufVars: {{{2
fun! s:SaveBufVars()
" call Dfunc("s:SaveBufVars()")

if exists("b:netrw_curdir") |let s:netrw_curdir = b:netrw_curdir |endif
if exists("b:netrw_lastfile") |let s:netrw_lastfile = b:netrw_lastfile |endif
if exists("b:netrw_method") |let s:netrw_method = b:netrw_method |endif
if exists("b:netrw_fname") |let s:netrw_fname = b:netrw_fname |endif
if exists("b:netrw_machine") |let s:netrw_machine = b:netrw_machine |endif
if exists("b:netrw_browser_active")|let s:netrw_browser_active = b:netrw_browser_active|endif

" call Dret("s:SaveBufVars")
endfun

" -----
" s:SaveWinVars: (used by Explore() and NetrwSplit()) {{{2

```

```

fun! s:SaveWinVars()
" call Dfunc("s:SaveWinVars()")
if exists("w:netrw_bannercnt") |let s:bannercnt = w:netrw_bannercnt |endif
if exists("w:netrw_col") |let s:col = w:netrw_col |endif
if exists("w:netrw_curdir") |let s:curdir = w:netrw_curdir |endif
if exists("w:netrw_explore_bufnr") |let s:explore_bufnr = w:netrw_explore_bufnr |endif
if exists("w:netrw_explore_indx") |let s:explore_indx = w:netrw_explore_indx |endif
if exists("w:netrw_explore_line") |let s:explore_line = w:netrw_explore_line |endif
if exists("w:netrw_explore_listlen")|let s:explore_listlen = w:netrw_explore_listlen|endif
if exists("w:netrw_explore_list") |let s:explore_list = w:netrw_explore_list |endif
if exists("w:netrw_explore_mtchcnt")|let s:explore_mtchcnt = w:netrw_explore_mtchcnt|endif
if exists("w:netrw_fpl") |let s:fpl = w:netrw_fpl |endif
if exists("w:netrw_hline") |let s:hline = w:netrw_hline |endif
if exists("w:netrw_line") |let s:line = w:netrw_line |endif
if exists("w:netrw_liststyle") |let s:liststyle = w:netrw_liststyle |endif
if exists("w:netrw_method") |let s:method = w:netrw_method |endif
if exists("w:netrw_prvdir") |let s:prvdir = w:netrw_prvdir |endif
if exists("w:netrw_treedict") |let s:treedict = w:netrw_treedict |endif
if exists("w:netrw_treetop") |let s:treetop = w:netrw_treetop |endif
if exists("w:netrw_winnr") |let s:winnr = w:netrw_winnr |endif
" call Dret("s:SaveWinVars")
endfun

" -----
" s:SetBufWinVars: (used by NetrwBrowse() and LocalBrowseCheck()) {{{2
" To allow separate windows to have their own activities, such as
" Explore */pattern, several variables have been made window-oriented.
" However, when the user splits a browser window (ex: ctrl-w s), these
" variables are not inherited by the new window. SetBufWinVars() and
" UseBufWinVars() get around that.
fun! s:SetBufWinVars()
" call Dfunc("s:SetBufWinVars()")
if exists("w:netrw_liststyle") |let b:netrw_liststyle = w:netrw_liststyle |endif
if exists("w:netrw_bannercnt") |let b:netrw_bannercnt = w:netrw_bannercnt |endif
if exists("w:netrw_method") |let b:netrw_method = w:netrw_method |endif
if exists("w:netrw_prvdir") |let b:netrw_prvdir = w:netrw_prvdir |endif
if exists("w:netrw_explore_indx") |let b:netrw_explore_indx = w:netrw_explore_indx |endif
if exists("w:netrw_explore_listlen")|let b:netrw_explore_listlen= w:netrw_explore_listlen|endif
if exists("w:netrw_explore_mtchcnt")|let b:netrw_explore_mtchcnt= w:netrw_explore_mtchcnt|endif
if exists("w:netrw_explore_bufnr") |let b:netrw_explore_bufnr = w:netrw_explore_bufnr |endif
if exists("w:netrw_explore_line") |let b:netrw_explore_line = w:netrw_explore_line |endif
if exists("w:netrw_explore_list") |let b:netrw_explore_list = w:netrw_explore_list |endif
" call Dret("s:SetBufWinVars")
endfun

" -----
" s:SetRexDir: set directory for :Rexplore {{{2
fun! s:SetRexDir(islocal,dirname)

```

```

" call Dfunc("s:SetRexDir(islocal=".a:islocal." dirname<"a:dirname.">")
" set up Rex and leftmouse-double-click
if a:islocal
exe 'com! Rexplore call s:NetrwRexplore(1,".escape(a:dirname,"\").")'
if g:netrw_retmap
if !hasmapto("<Plug>NetrwReturn") && maparg("<2-leftmouse>","n") == ""
nmap <unique> <silent> <2-leftmouse> <Plug>NetrwReturn
endif
let dir = escape(a:dirname, s:netrw_map_escape)
exe 'nnoremap <silent> <Plug>NetrwReturn :call <SID>NetrwRexplore(1,".dir.")<cr>'
endif
else
exe 'com! Rexplore call s:NetrwRexplore(0,".escape(a:dirname,"\").")'
if g:netrw_retmap
if !hasmapto("<Plug>NetrwReturn") && maparg("<2-leftmouse>","n") == ""
nmap <unique> <silent> <2-leftmouse> <Plug>NetrwReturn
endif
let dir = escape(a:dirname, s:netrw_map_escape)
exe 'nnoremap <silent> <Plug>NetrwReturn :call <SID>NetrwRexplore(0,".dir.")<cr>'
endif
endif
" call Dret("s:SetRexDir")
endfun

```

```

" -----
" s:Strlen: this function returns the length of a string, even if its {{2
" using two-byte etc characters.
" Currently, its only used if g:Align_xstrlen is set to a
" nonzero value. Solution from Nicolai Weibull, vim docs
" (:help strlen()), Tony Mechelynck, and my own invention.
fun! s:Strlen(x)
" call Dfunc("s:Strlen(x<"a:x.">")
if g:netrw_xstrlen == 1
" number of codepoints (Latin a + combining circumflex is two codepoints)
" (comment from TM, solution from NW)
let ret= strlen(substitute(a:x,'.','c','g'))

elseif g:netrw_xstrlen == 2
" number of spacing codepoints (Latin a + combining circumflex is one spacing
" codepoint; a hard tab is one; wide and narrow CJK are one each; etc.)
" (comment from TM, solution from TM)
let ret=strlen(substitute(a:x,'\Z','x','g'))

elseif g:netrw_xstrlen == 3
" virtual length (counting, for instance, tabs as anything between 1 and
" 'tabstop', wide CJK as 2 rather than 1, Arabic alif as zero when immediately
" preceded by lam, one otherwise, etc.)
" (comment from TM, solution from me)

```

```

let modkeep= &mod
exe "norm! o\

```

```

if line(".") == curline-1
 let nl= search('^'.indent1.'[^\]','bWe') " search backwards from directory, indentation - 1
 call Decho("dir srch back ind-1: ".nl)
endif
endif

elseif a:dir == ']' && nxtline != "
 norm! $
 let curline = line(".")
 let nl = search('^'.curindent.'[^\]','We') " search forwards from directory, same indentation
 call Decho("dir srch fwd ind: ".nl)
 if nl != 0
 if line(".") == curline+1
 let nl= search('^'.indent1.'[^\]','We') " search forwards from directory, indentation - 1
 call Decho("dir srch fwd ind-1: ".nl)
 endif
 endif

endif

" call Dret("s:TreeListMove")
endfun

" -----
" s:UpdateBuffersMenu: does emenu Buffers.Refresh (but due to locale, the menu item may not be called that) {{{2
" The Buffers.Refresh menu calls s:BMSHow(); unfortunately, that means that that function
" can't be called except via emenu. But due to locale, that menu line may not be called
" Buffers.Refresh; hence, s:NetrwBMSHow() utilizes a "cheat" to call that function anyway.
fun! s:UpdateBuffersMenu()
" call Dfunc("s:UpdateBuffersMenu()")
if has("gui") && has("menu") && has("gui_running") && go =~ 'm'
 try
 silent emenu Buffers.Refresh\ menu
 catch /^Vim\%((\a\+)\)=:E/
 let v:errmsg= ""
 silent call s:NetrwBMSHow()
 endtry
endif
" call Dret("s:UpdateBuffersMenu")
endfun

" -----
" s:UseBufWinVars: (used by NetrwBrowse() and LocalBrowseCheck() {{{2
" Matching function to BufferWinVars()
fun! s:UseBufWinVars()
" call Dfunc("s:UseBufWinVars()")
if exists("b:netrw_liststyle") && !exists("w:netrw_liststyle") |let w:netrw_liststyle = b:netrw_liststyle
endif

```

```

if exists("b:netrw_bannercnt") && !exists("w:netrw_bannercnt") |let w:netrw_bannercnt =
b:netrw_bannercnt |endif
if exists("b:netrw_method") && !exists("w:netrw_method") |let w:netrw_method =
b:netrw_method |endif
if exists("b:netrw_prvdir") && !exists("w:netrw_prvdir") |let w:netrw_prvdir = b:netrw_prvdir
|endif
if exists("b:netrw_explore_idx") && !exists("w:netrw_explore_idx") |let w:netrw_explore_idx =
b:netrw_explore_idx |endif
if exists("b:netrw_explore_listlen") && !exists("w:netrw_explore_listlen")|let w:netrw_explore_listlen =
b:netrw_explore_listlen|endif
if exists("b:netrw_explore_mtchcnt") && !exists("w:netrw_explore_mtchcnt")|let w:netrw_explore_mtchcnt =
b:netrw_explore_mtchcnt|endif
if exists("b:netrw_explore_bufnr") && !exists("w:netrw_explore_bufnr") |let w:netrw_explore_bufnr =
b:netrw_explore_bufnr |endif
if exists("b:netrw_explore_line") && !exists("w:netrw_explore_line") |let w:netrw_explore_line =
b:netrw_explore_line |endif
if exists("b:netrw_explore_list") && !exists("w:netrw_explore_list") |let w:netrw_explore_list =
b:netrw_explore_list |endif
" call Dret("s:UseBufWinVars")
endfun

" -----
" s:WinPath: {{{2
fun! s:WinPath(path)
" call Dfunc("s:WinPath(path<".a:path.">")
if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
" remove trailing slash (Win95)
let path = substitute(a:path, '\\\\\/$', '', 'g')
" remove escaped spaces
let path = substitute(path, '\\', '\\', 'g')
" convert slashes to backslashes
let path = substitute(path, '/', '\\', 'g')
else
let path= a:path
endif
" call Dret("s:WinPath <".path.">")
return path
endfun

" -----
" Settings Restoration: {{{2
let &cpo= s:keepcpo
unlet s:keepcpo

" -----
" Modelines: {{{1
" vim:ts=8 fdm=marker

```

en\_US  
20040623 release.

--

This dictionary is based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL license. The affix file is a heavily modified version of the original english.aff file which was released as part of Geoff Kuenning's Ispell and as such is covered by his BSD license.

Thanks to both authors for there wonderful work.

=====  
en\_AU:

This dictionary was based on the en\_GB Myspell dictionary which in turn was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

The credit for this en\_AU dictionary goes to:

Kelvin Eldridge (maintainer)  
Jean Hollis Weber  
David Wilson

- Words incorrect in Australian English removed
- a list from the previously removed words with corrected spelling was added
- a list of major rivers was added
- a list of place names was added
- a list of Australian mammals was added
- a list of Aboriginal/Koori words commonly used was added

A total of 119,267 words are now recognized by the dictionary.

Of course, special thanks go to the editors of the en\_GB dictionary (David Bartlett, Brian Kelk and Andrew Brown) which provided the starting point for this dictionary.

The affix file is currently a duplicate of the en\_AU.aff created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

If you find omissions or bugs or have new words to add to the dictionary, please contact the en\_AU maintainer at:

"Kelvin" <audictionary@onlineconnections.com.au>

=====  
en\_CA:

The dictionary file was created using the "final" English and Canadian SCOWL (Spell Checker Oriented Word Lists) wordlists available at Kevin's Word Lists Page (<http://wordlist.sourceforge.net>). Lists with the suffixes 10, 20, 35, 50, 65 and 65 were used. Lists with the suffixes 70, 80 and 95 were excluded. Copyright information for SCOWL and the wordlists used in creating it is reproduced below.

The affix file is identical to the MySpell English (United States) affix file. It is a heavily modified version of the original english.aff file which was released as part of Geoff Kuenning's Ispell and as such is covered by his BSD license.

---

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".



The MWords package was explicitly placed in the public domain:

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Grady Ward  
3449 Martha Ct.  
Arcata, CA 95521-4884

grady@netcom.com  
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100  
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English  
> Wordlist With Frequency Classification" word list as it seems to  
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

The 12Dicts package and Supplement is in the Public Domain.

The WordNet database, which was used in the creation of the Inflections database, is under the following copyright:

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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

The name list from Alan Beale is also derived from the linux words list, which is derived from the DEC list. He also added a bunch of miscellaneous names to the list, which he released to the Public Domain.

The DEC Word list doesn't have a formal name. It is labeled as "FILE: english.words; VERSION: DEC-SRC-92-04-05" and was put together by Jorge Stolfi <stolfi@src.dec.com> DEC Systems Research Center. The DEC Word list has the following copyright statement:

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To the best of my knowledge, all the files I used to build these wordlists were available for public distribution and use, at least for non-commercial purposes. I have confirmed this assumption with the authors of the lists, whenever they were known.

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These files, like the original wordlists on which they are based, are still very incomplete, uneven, and inconsistent, and probably contain many errors. They are offered "as is" without any warranty of correctness or fitness for any particular purpose. Neither I nor my employer can be held responsible for any losses or damages that may result from their use.

However since this Word List is used in the linux.words package which the author claims is free of any copyright I assume it is OK to use for most purposes. If you want to use this in a commercial project and this concerns you the information from the DEC word list can easily be removed without much sacrifice in quality as only the name lists were used.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain

a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 60 level includes Brian's frequency class 0 and all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package. A large number of names are also included: The 4,946 female names and 3,897 male names from the MWords package and the files "computer.names", "misc.names", and "org.names" from the DEC package.

The 65 level includes words found in the Ispell "medium" word list. The Ispell word lists are under the same copyright of Ispell itself which is:

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The 70 level includes the 74,550 common dictionary words and the 21,986 names list from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

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There are no other restrictions: I would like to see the list distributed as widely as possible.

The 95 level includes the 354,984 single words and 256,772 compound words from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that

were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and Canadian word list.

Since the original word lists used in the VARCON package came from the Ispell distribution they are under the Ispell copyright.

The variant word lists were created from a list of variants found in the 12dicts supplement package as well as a list of variants I created myself.

=====  
en\_GB:

This dictionary was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

It has been extensively updated by David Bartlett, Brian Kelk and Andrew Brown:

- numerous Americanism have been removed
- numerous American spellings have been corrected
- missing words have been added
- many errors have been corrected
- compound hyphenated words have been added where appropriate

Valuable inputs to this process were received from many other people - far too numerous to name. Serious thanks to you all for your greatly appreciated help.

This word list is intended to be a good representation of current modern British English and thus it should be a good basis for Commonwealth English in most countries of the world outside North America.

The affix file has been created completely from scratch by David Bartlett and Andrew Brown, based on the published rules for MySpell and is also provided under the LGPL.

In creating the affix rules an attempt has been made to reproduce the most general rules for English word

formation, rather than merely use it as a means to compress the size of the dictionary. It is hoped that this will facilitate future localisation to other variants of English.

Please let David Bartlett <dwb@openoffice.org> know of any errors that you find.

The current release is R 1.18, 11/04/05

=====  
en\_NZ:

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II. Copying (Licence)  
-----

I. Copyright

NZ English Dictionary v0.9 beta - Build 06SEP03

~~~~~  
NB This is an initial version, please check:

[http://lingucomponent.openoffice.org/download\\_dictionary.html](http://lingucomponent.openoffice.org/download_dictionary.html)

or

<http://www.girlza.com/dictionary/download.html>

for a final version, after a little while (no hurry).

This dictionary is based on the en\_GB Myspell dictionary which in turn was initially based on a subset of the original English wordlist created by Kevin Atkinson for Pspell and Aspell and thus is covered by his original LGPL licence.

Introduction

~~~~~  
en\_NZ.dic has been altered to include New Zealand places, including major cities and towns, and major suburbs. It also contains NZ words, organisations and expressions.

en\_NZ.aff has had a few REPlace strings added, but is basically unchanged.

Acknowledgements

~~~~~  
Thanks must go to the original creators of the British dictionary, David Bartlett, Brian Kelk and Andrew Brown.

I wouldn't have started this without seeing the Australian

dictionary, thanks Kelvin Eldridge, Jean Hollis Weber and David Wilson.

And thank you to all who've contributed to OpenOffice.org.

#### License

~~~~~

This dictionary is covered by the GNU Lesser General Public License, viewable at <http://www.gnu.org/copyleft/lesser.html>

#### Issues

~~~~~

Many of the proper nouns already in the dictionary do not have an affix for 's.

All my new words start after the z's of the original dictionary.

#### Contact

~~~~~

Contact Tristan Burtenshaw ([hooty@slingshot.co.nz](mailto:hooty@slingshot.co.nz)) with any words, places or other suggestions for the dictionary.

## II. Copying

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## 1.328 WSDL4j 1.6.2

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## 1.329 wxGTK 2.8.12 :1.el6.centos

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```
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```
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## 1.332 Xerces2 Java Parser 2.8.1

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## 1.338 xmlParserAPIs (Xerces-J) 2.6.2

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# 1.340 xz-libs 4.999.9 :0.3.beta.20091007git.el6

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=====

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```

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```

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## 1.345 zerofree 1.0.1

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## 1.346 zlib 1.2.3 :29.el6

### 1.346.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
```

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Jean-loup Gailly     Mark Adler  
jloup@gzip.org     madler@alumni.caltech.edu

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\*/

'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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## 1.347 zlib 1.2.2

### 1.347.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.2, October 3rd, 2004
```

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```
*/
```

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