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- 1.304 libgpg-error 1.36 r0**
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- 1.305 iperf2 2.0.13 r0**
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- 1.310 opkg 0.4.1 r0**
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- 1.312 libpciaccess 0.16 r0**
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- 1.313 libgpod 1.4.1 r0**
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- 1.316 qemu 4.1.0 r0**
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- 1.321 pixman 0.38.4 r0**
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- 1.323 psmisc 23.2 r0**
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- 1.324 python3-cryptography 2.9 r0**
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- 1.325 jansson 2.12 r0**
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- 1.326 iperf 3.7 r0**
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- 1.328 python-importlib-metadata 0.23 r0**
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- 1.331 ncurses 6.1+20190803 r0**

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- 1.333 gflags 2.2.2 r0**
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- 1.334 libpng 1.6.37 r0**
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- 1.335 python3-py 1.8.0 r0**
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- 1.336 python-greenlet 0.4.15 r0**
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- 1.338 libxml2 2.9.9 r0**
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- 1.340 python3-attrs 19.3.0 r0**
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- 1.342 dmidecode 3.2 r0**
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- 1.346 rrdtool 1.7.2 r0**
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- 1.348 libnl3 3.5.0 r0**
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- 1.349 python-py 1.8.0 r0**
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- 1.393 expect 5.45.4 r0**
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- 1.404 swtpm2 0.5+gitAUTOINC+12de4f8206 r0**
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- 1.406 cJSON 1.7.10+git0+c69134d017-r0**
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- 1.407 e2fsprogs 1.42.99+1.43+git0+0f26747167-r0**
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- 1.409 CiscoSSL 1.1.1c.7.1.3-r0**

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- 1.411 swtpm2 0.5+git0+12de4f8206-r0**
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- 1.412 libnl3 1:3.5.0-r0**
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- 1.413 pixman 1:0.38.4-r0**
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- 1.416 systemd-bootchart 233+git0+fe1c5e41e6-r0**
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- 1.417 squashfs-tools 4.3+git0+f95864afe8-r0**
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- 1.423 libnss-nisplus 1.3+git0+c6934373c7-r0**
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- 1.585 json-c 0.13.1-0.3.el8**
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- 1.587 libyaml 0.1.7-5.el8**
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- 1.588 npth 1.5-4.el8**
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1.3 base-files 3.0.14 r89

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1.4 libdnet 1.12 r0

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1.5 xinetd 2.3.15 r2

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So, if you want, you may use any 2.N.* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.* line; using that would only create confusion. Naming the next release 2.3.0

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1.6 netkit-telnet 0.17 r0

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1.7 libsmi 0.5.0 r0

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu /pub/Linux/libs](http://sunsite.unc.edu/pub/Linux/libs)

[shhopt-1.1.2.tar.gz](#)

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and
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1.8 sysfsutils 2.1.0 r5

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Version 2, June 1991

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1.9 netkit-rsh 0.17 r0

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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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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
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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
parts of the General Public License. Of course, the commands you use may
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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
```

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* <http://www.openbsd.org/>.
*
* ----- */

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.h

No license file was found, but licenses were detected in source scan.

/* ----- */
*
* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* <http://www.openbsd.org/>.
*
* ----- */

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.h

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/misc.c

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/remap.c

No license file was found, but licenses were detected in source scan.

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- * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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- * SUCH DAMAGE.

*/

Found

in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.c

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Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.1.in

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: 5.2

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

%configure

make %{?_smp_mflags}

%install

rm -rf \${RPM_BUILD_ROOT}

mkdir -p \${RPM_BUILD_ROOT}%{_bindir}

mkdir -p \${RPM_BUILD_ROOT}%{_mandir}/man{1,8}

mkdir -p \${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=\${RPM_BUILD_ROOT} \

SBINDIR=%{_sbindir} MANDIR=%{_mandir} \

install

install -m755 -d \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ \${RPM_BUILD_ROOT}/tftpboot

install -m644 tftp-xinetd \${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server

/sbin/service xinetd reload > /dev/null 2>&1 || :

```

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

```

- * Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
 - Fix #55789
 - Update to 0.30

- * Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
 - Try applying HJ's patch from #65476

- * Fri Jun 21 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
 - Update to 0.29

- * Thu May 23 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Wed Jan 09 2002 Tim Powers <timp@redhat.com>
 - automated rebuild

- * Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
 - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
 - Update to tftp-hpa-0.28 (bug #56131)
 - Remove include/arpa/tftp.h to fix #57259
 - Add resource limits in tftp-xinetd (#56722)

- * Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
 - Bump release + rebuild.

- * Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
 - updated tftp-hpa source to tftp-hpa-0.17
 - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
 - use hpa's tftpd.8 man page instead of the netkits one

- * Mon May 07 2001 Helge Deller <hdeller@redhat.de>
 - rebuilt in 7.1.x

- * Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
 - fix tftp client's put problems (#29529)
 - update to tftp-hpa-0.16

- * Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
 - don't let configure to guess compiler, it can pick up egcs

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
 - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
 - fixed hpa-tftpd to handle files greater than 32MB (#23725)

- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

- * Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

- * Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

- * Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

- * Wed Aug 23 2000
- Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

- * Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

- * Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

- * Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

- * Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

- * Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

- * Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>

- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>

- man pages are compressed
- fix description and summary

* Tue

Jan 4 2000 Bill Nottingham <notting@redhat.com>

- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>

- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>

- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>

- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>

- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>

- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec

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.\" without specific prior written permission.

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/tftpd.8.in

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp

Version: @@VERSION@@

Release: 1

License: BSD

Group: Applications/Internet

Source0: <http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz>

BuildRequires: tcp_wrappers-devel

BuildRoot: %{_tmppath}/%{name}-root

%description

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server

Group: System Environment/Daemons

Summary: The server for the Trivial File Transfer Protocol (TFTP).

Requires: xinetd

%description server

The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep

%setup -q -n tftp-hpa-%{version}

%build

```

%configure
make % { ?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
  SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files
server
%defattr(-,root,root)
%config(noreplace) % {_sysconfdir}/xinetd.d/tftp
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- rebuilt

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```


- rebuilt

- * Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
 - 0.33
 - Add /tftpboot directory (#88204)

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 - FHS packaging.
 - update to 0.17.

- * Fri May 5 2000 Matt Wilson <msw@redhat.com>
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- * Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
 - fix description

- * Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
 - compress man pages (again).

- * Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
 - man pages are compressed
 - fix description and summary

- *

- Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
 - split client and server

- * Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
 - update to 0.16.

- * Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
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- * Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
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 - build root

- * Mon Apr 27 1998 Prospector System <bugs@redhat.com>
 - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>

- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>

- initial build

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp.spec.in

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```
/* *_- c *_- ----- *
```

```
/*
```

```
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```

```
/*
```

```
* This program is free software available under the same license
```

```
* as the "OpenBSD" operating system, distributed at
```

```
* http://www.openbsd.org/.
```

```
/*
```

```
* ----- */
```

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/config.h

No license file was found, but licenses were detected in source scan.

```
/* ----- *
```

```
/*
```

```
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
```

```
/*
```

```
* This program is free software available under the same license
```

```
* as the "OpenBSD" operating system, distributed at
```

```
* http://www.openbsd.org/.
```

```
/*
```

```
* ----- */
```

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.c

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftpd/recvfrom.h

No license file was found, but licenses were detected in source scan.

```
/*
```

```
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```

```
/*
```

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*/

Found in path(s):

* /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/extern.h

*

*/opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.h

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 - */

Found in path(s):

- * /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/main.c
- *
 - /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/common/tftpsubs.c
 - * /opt/cola/permits/152586056_1695308054.1213334/0/tftp-hpa-5-2-r0-tar-bz2/tftp-hpa-5.2-r0/tftp-hpa-5.2/tftp-hpa-5.2/tftp/tftp.c

1.11 libusb-compat 0.1.5 r0

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Version 2.1, February 1999

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1.12 libmodelgbp beryllium-sr1 r0

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1.13 flex 2.6.0 r0

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1.14 popt 1.16 r3

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1.15 yajl 2.1.0 r0

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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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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.

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

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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.

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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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.

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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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(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,

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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

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file to most

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<one line to give the library's name and a brief idea of what it does.>

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

You should also get your employer (if you work as a programmer) or your

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel]
cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- 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 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
>> I understand that, and you're welcome to bring it up with Alec
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>> it was enough to just get it consistent and documented as to what
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> not
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> license
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> unlike the old license, GPL-2 prevents people from using cracklib
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> place of a
> library

to dictact to application writes what license they should

> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

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> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

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

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

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

On Sunday 05 October

2008, Alec Muffett wrote:

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

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

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.umn.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@umn.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.umn.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@umn.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> 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

1.20 setserial 2.17 r3

1.20.1 Available under license :

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Version 2, June 1991

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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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```
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.
```

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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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1.21 e2fsprogs

1.42.99+1.43+gitAUTOINC+0f26747167 r0

1.21.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
- + Copyright (C) Andrew Tridgell 1999-2005
- + Copyright (C) Jeremy Allison 2000-2006
- + Copyright (C) Paul 'Rusty' Russell 2000

** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released

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Follows the GNU license.

Gadi Oxman, August 1995

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Version 2, June 1991

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

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<signature of Ty Coon>, 1 April 1989
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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#

This is a Makefile stub which handles the creation of BSD shared

```

# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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Theodore Ts'o
23-June-2007

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

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

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

That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

From the original distribution:

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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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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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* GSS-API Programming Guide

* Part No: 816-1331-11

* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.

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/*

* hmac.c is derived from:

Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
 UCSD
 R. Canetti
 IBM
 February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.24 libdaemon 0.14 r0

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1.27 ppp 2.4.7 r0

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1.28 rapidjson 1.0.2 r0

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1.29 Irzsz 0.12.20 r6

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The hypothetical commands

```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.30 findutils 4.6.0 r0

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1.31 sfdisk 2.25.2 r0

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Ty Coon, President of Vice
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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos

Disk identifier: <removed>

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe
bsd.img

---layout-----
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel
type: bsd
partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

partitions: 4

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD			
	0	0	0					
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

```
0 unused      5 4.1BSD      9 4.4LFS      d boot
1 swap        6 Eighth Edition a unknown    e ADOS
2 Version 6    7 4.2BSD      b HPFS       f HFS
3 Version 7    8 MS-DOS     c ISO-9660   10 AdvFS
4 System V
```

Command (m for help):

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1.32 pm-utils 1.4.1 r1

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1.33 base-passwd 3.5.29 r0

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

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1.35 jemalloc 4.0.4 r0

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1.36 email 4.0.2 r0

1.36.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0

Name: email

Version: 4.0.2

Summary: Standalone email package

Home-page: <http://www.python.org/sigs/email-sig>

Author: Email SIG

Author-email: email-sig@python.org

License: Python software Foundation

Description: This is the standalone email package. This is a copy of what's available in Python but you may want to use the standalone version if you want the latest and greatest email package, even in older Pythons.

Keywords: email

Platform: UNKNOWN

Found in path(s):

* /opt/cola/permits/177695388_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email.egg-info/PKG-INFO

* /opt/cola/permits/177695388_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/PKG-INFO

No license file was found, but licenses were detected in source scan.

Return-Path: <barry@python.org>

Delivered-To: barry@python.org

Received: by mail.python.org (Postfix, from userid 889)
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)

MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="h90VIIIKmx"

Content-Transfer-Encoding: 7bit

Message-ID: <15261.36209.358846.118674@anthem.python.org>

From: barry@python.org (Barry A. Warsaw)

To: barry@python.org

Subject: a simple multipart

Date: Tue, 11 Sep 2001 00:05:05 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx

Content-Type: text/plain

Content-Disposition: inline;

filename="msg.txt"

Content-Transfer-Encoding: 7bit

a simple kind of mirror

to reflect upon our own

--h90VIIIKmx
Content-Type: text/plain
Content-Disposition: inline;
filename="msg.txt"
Content-Transfer-Encoding: 7bit

a simple kind of mirror
to reflect
upon our own

--h90VIIIKmx--

Found in path(s):

* /opt/cola/permits/177695388_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg_04.txt

No license file was found, but licenses were detected in source scan.

Return-Path: <barry@python.org>
Delivered-To: barry@python.org
Received: by mail.python.org (Postfix, from userid 889)
id C2BF0D37C6; Tue, 11 Sep 2001 00:05:05 -0400 (EDT)
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="h90VIIIKmx"
Content-Transfer-Encoding: 7bit
Message-ID: <15261.36209.358846.118674@anthem.python.org>
From: barry@python.org (Barry A. Warsaw)
To: barry@python.org
Subject: a simple multipart
Date: Tue, 11 Sep 2001 00:05:05 -0400
X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid
X-Attribution: BAW
X-Oblique-Strategy: Make a door into a window

--h90VIIIKmx
Content-Type: text/plain
Content-Disposition: inline; name="msg.txt"
Content-Transfer-Encoding: 7bit

a simple kind of mirror
to reflect upon our own

--h90VIIIKmx
Content-Type: text/plain
Content-Disposition: inline; name="msg.txt"
Content-Transfer-Encoding: 7bit

a simple kind of mirror
to reflect upon our
own

--h90VIIIKmx--

Found in path(s):

* /opt/cola/permits/177695388_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg_44.txt

No license file was found, but licenses were detected in source scan.

Return-Path: <barry@python.org>

Delivered-To: barry@python.org

MIME-Version: 1.0

Content-Type: message/rfc822

Content-Description: forwarded message

Content-Transfer-Encoding: 7bit

Message-ID: <15265.9482.641338.555352@python.org>

From: barry@zope.com (Barry A. Warsaw)

Sender: barry@python.org

To: barry@python.org

Subject: forwarded message from Barry A. Warsaw

Date: Thu, 13 Sep 2001 17:28:42 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence" XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Be dirty

X-Url: http://barry.wooz.org

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Return-Path: <barry@python.org>

Delivered-To: barry@python.org

Message-ID: <15265.9468.713530.98441@python.org>

From: barry@zope.com (Barry A. Warsaw)

Sender: barry@python.org

To: barry@python.org

Subject: testing

Date: Thu, 13 Sep 2001 17:28:28 -0400

X-Mailer: VM 6.95 under 21.4 (patch 4) "Artificial Intelligence"

XEmacs Lucid

X-Attribution: BAW

X-Oblique-Strategy: Spectrum analysis

X-Url: http://barry.wooz.org

Found in path(s):

* /opt/cola/permits/177695388_1695327804.243507/0/email-4-0-2-r0-tar-bz2/email-4.0.2-r0/email/test/data/msg_06.txt

1.37 python-backports-lzma 0.0.3 r0

1.37.1 Available under license :

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1

Name: backports.lzma

Version: 0.0.3

Summary: Backport of Python 3.3's 'lzma' module for XZ/LZMA compressed files.

Home-page: <https://github.com/peterjc/backports.lzma>

Author: Peter Cock, based on work by Nadeem Vawda and Per Oyvind Karlsen

Author-email: p.j.a.cock@gmail.com

License: 3-clause BSD License

Description: This is a backport of the 'lzma' module included in Python 3.3 or later

by Nadeem Vawda and Per Oyvind Karlsen, which provides a Python wrapper for XZ Utils (aka LZMA Utils v2) by Igor Pavlov.

In order to compile this, you will need to install XZ Utils from <http://tukaani.org/xz/>

Keywords: xz lzma compression decompression

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier:

Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Topic :: System :: Archiving :: Compression

Found in path(s):

* /opt/cola/permits/177697609_1695328042.9187105/0/python-backports-lzma-0-0-3-r0-tar-bz2/python-backports-lzma-0.0.3-r0/backports.lzma-0.0.3/PKG-INFO

No license file was found, but licenses were detected in source scan.

license='3-clause BSD License',

'License :: OSI Approved :: BSD License',

Found in path(s):

* /opt/cola/permits/177697609_1695328042.9187105/0/python-backports-lzma-0-0-3-r0-tar-bz2/python-backports-lzma-0.0.3-r0/backports.lzma-0.0.3/setup.py

1.38 devmem2 1.0 r7

1.39 httping 2.5 r0

1.39.1 Available under license :

Please see license.txt.

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1.40 python-pycrypto 2.6.1 r0

1.40.1 Available under license :

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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.

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 from	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	no
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

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Mathematisch

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====
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=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk

(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
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=====
```

Regards,
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing

key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in

'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)
Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3
for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:from:date:message-id:subject:to:content-type
:content-transfer-encoding;
bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWIJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac
Vn55qlIqTdom4e9zlUEE6MwZo9kqi/Qw0L/SLib0DlQeNqo/eHYqPmuVswltaYwNAyMJ
Y9++76rPGzqYdALsfvsmwv7Q3/bEmjVTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=noFWS;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jze7KSMkUGilfVCXKXaaXMi5NAtGdMQOtVZZfRNyGSy68xOd2sxefjyyig3EFT6Nv6
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NwIeEWJnG3xcliRQu/mXPfP8AzPI3CefL
1ornJLM1eQ2XyuZA73jem+SJtfdHUcSD1UhgI=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:
te:
> Hi Paul,
>
> I am the new
maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at <http://www.pycrypto.org/>.

X-Homepage: <http://www.dlitz.net/>
X-OpenPGP:
url=<http://www.dlitz.net/go/gpgkey/>;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzengerber<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

>> I am the new maintainer of the Python Cryptography Toolkit, and I am

>> working on a new release at <http://www.pycrypto.org/>.

>

>That's great!

>

>> I understand that you have made contributions to PyCrypto, under nickname

>> "z3p" and/or other names. May I, on your behalf, dedicate to the public

>> domain all your contributions to PyCrypto, with the following notice?

>>

>> =====

>> The contents of this file are dedicated to
>> the public domain. To the

>> extent that dedication to the public domain is not available, everyone

>> is granted a worldwide, perpetual, royalty-free, non-exclusive license

>> to exercise all rights associated with the contents of this file for

>> any purpose whatsoever. No rights are reserved.

>> =====

>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzengerber <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzengerber" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use
freely; there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
```

extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

=====

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com [68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE

for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;

bh=OvxqbYnCg7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-

Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhKLQdkQk0qLz5f4g8dT6bOME3sEY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noFWS;

s=s1024; d=yahoo.com;

h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj763caOAlo8Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j eo=;

Message-ID:

<551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY
4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVyp50clsUFS
Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1

Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)

From: M Moraes <markmoraes@yahoo.com>

Reply-To: moraes@computer.org

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Status: RO

X-Status: A

Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,

Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>

> Subject: PyCrypto license clarification

> To: "Mark Moraes" <moraes@computer.org>

> Date: Saturday, April 18, 2009, 9:14 AM

> Hi Mark,

>

> I am the new maintainer of the Python Cryptography Toolkit,

> and I am

> working on a new release at <http://www.pycrypto.org/>.

>

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> it's

> GPL-compatible, etc. Right now, I'm not really sure

> what to tell them.

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> on the point of whether distributing modified versions is

> allowed. (It

> says "distribute and use", but not "modify".)
>
>
> =====
> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those
>
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or
> suitability for any purpose, express
> or implied. Use at your own risk or
> not at all.
>
> =====
>
> Incorporating the code into commercial
> products is permitted; you do
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> (though that would be nice).
>
> --amk
>
>
> (www.amk.ca)
>
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>

> =====

>

> Regards,

> - Dwayne

>

> -- Dwayne C. Litzenger <dlitz@dlitz.net>

>

Key-signing key - 19E1

> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009

Date: Mon, 20 Apr 2009 20:01:37 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: moraes@computer.org

Subject: Re: PyCrypto license clarification

Message-ID: <20090421000137.GA29012@rivest.dlitz.net>

References: <551071.34569.qm@web32405.mail.mud.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3677

Thanks a lot, and don't

worry about not responding to previous emails. I

do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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>> Date: Saturday, April 18, 2009, 9:14 AM

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>> not at all.
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>> (though that would be nice).
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>> (www.amk.ca)
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>> to exercise all rights associated with
>> the contents of this file for
>> any purpose whatsoever. No
>> rights are reserved.

>>

>> =====

>>

>> Regards,

>> - Dwayne

>>

>> -- Dwayne C. Litzenberger <dlitz@dlitz.net>

>> Key-signing key - 19E1

>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>>

>

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <dlitz@dlitz.net>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA

for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)

Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)

Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])

by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088

for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)

Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk

[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS

15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;

Thu, 28 Aug 2008 01:45:02 +0100

To: crypt@bis.doc.gov,

enc@nsa.gov,

web_site@bis.doc.gov,

pycrypto@lists.dlitz.net,

PYTHON-CRYPTO@NIC.SURFNET.NL,

dlitz@dlitz.net

Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net designates 64.5.53.201 as permitted sender) identity=mailfrom; client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk; helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net; Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100 Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1]) by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1 for <post@stamper.itconsult.co.uk>; Wed, 27 Aug 2008 18:42:56 -0600 (CST) Received: by rivest.dlitz.net (Postfix, from userid 1000) id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT) Received: by rivest.dlitz.net (tmda-sendmail, from uid 1000); Wed, 27 Aug 2008 20:42:54 -0400 Date: Wed, 27 Aug 2008 20:42:54 -0400 Cc: post@stamper.itconsult.co.uk Subject: PyCrypto TSU NOTIFICATION Message-ID: <20080828004254.GA31214@rivest.dlitz.net> MIME-Version: 1.0 Content-Type: text/plain; charset=us-ascii; format=flowed Content-Disposition: inline X-Primary-Address: dlitz@dlitz.net X-Homepage: http://www.dlitz.net/ X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing); preference=unprotected X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/; id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008); preference=signencrypt User-Agent: Mutt/1.5.16 (2007-06-11) X-Delivery-Agent: TMDA/1.1.9 (Jura) From: "Dwayne C. Litzenger" <dlitz@dlitz.net> X-DNSBL: 0 Status: O Content-Length: 2182 Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#

This is a proof of posting certificate from
stamper.itconsult.co.uk certifying that a user
claiming to be:-

dlitz@dlitz.net
requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL
dlitz@dlitz.net

This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978

CAUTION: while the message may well be from the sender
indicated in the "From:" header, the sender
has NOT been authenticated by this service

For information about the Stamper service see
<http://www.itconsult.co.uk/stamper.htm>
#

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C.
Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- - -

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i

Charset: noconv

Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvvijUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/eq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOPjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o
XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSiPkwmbhlPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX

-----END

PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hxxx.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on

>your behalf, dedicate to the public domain all your contributions to

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> to exercise all rights associated with the contents
of this file for

> any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B
FektbDOzkxgc5580MGGeX/MVn8aw+1BHg0YD85gsntIDzkcQtb+BR/xAvJ5zKyA
J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKoBx+/5+t1lJtBcZ
wrPEa9Oui9s=
=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

==== EOF ====

From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: multipart/signed; micalg=pgp-sha1;
protocol="application/pgp-signature"; boundary="YiEDa0DAkWCtVeE4"
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3461
Lines: 78

--YiEDa0DAkWCtVeE4
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

Hi Andrew,

People

often ask me what license PyCrypto is covered by, if it's=20
GPL-compatible, etc. Right now, I'm not really sure what to tell them. =20
The text in the current LICENSE file (quoted below) is not entirely clear=

--=20

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4

Content-Type: application/pgp-signature; name="signature.asc"

Content-Description:

Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHfBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ

yloAn33a3ZjkteyJaTbzEqImOEw8JGpf

=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP

for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>
Reply-To: amk@amk.ca
References: <20081123051722.GA29253@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>
User-Agent:
Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear

on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====
Distribute and use freely;
there are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====

Incorporating the code into commercial products is permitted; you do
not have to make source available or contribute your changes back
(though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a
clearer licensing regime. I am asking as many copyright holders as I can
find if I can release PyCrypto under something clearer and more standard.
Below, I have quoted a public domain dedication that was recommended in
_Intellectual Property and Open Source: A Practical Guide to Protecting
Code_, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey
Pointer, and Wim Lewis, and they have all approved the following text for
their contributions.

I understand that you have made contributions to PyCrypto. May I, on your
behalf, dedicate to the public domain all your contributions to PyCrypto,
with the following notice?

=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====

Regards,
- Dwayne

--
Dwayne C. Litzberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009

X-Maildir-Dup-Checked:
Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net
(Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:date:message-id:subject:from:to:content-type;
bh=YWy9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;
b=oMjI22IIXYiJKge2zNJW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVEyzBbNsctyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=noaws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to
:content-type;
b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmlsffzZG8hJCIVJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLlvGVH8p
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054

Status: RO

Content-Length: 7668

--000e0cd209d0e5a3d40464a23054

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really

check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am

> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if it's

> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The

> text in the current LICENSE file (quoted below) is not entirely clear on the

> point of whether distributing modified versions is allowed. (It says

> "distribute and use", but not "modify".)

>

> =====

> Distribute and use freely; there are no restrictions on further

> dissemination and usage except those imposed by the laws of your

> country of residence. This software is provided "as is" without

> warranty of fitness for use or suitability for any purpose,

express

> or implied. Use at your own risk or not at all.

> =====

>

> Incorporating the code into commercial products is permitted; you do

> not have to make source available or contribute your changes back

> (though that would be nice).

>

> --amk (www.amk.ca)

>

> For the next PyCrypto release, I would like to take steps to move toward a

> clearer licensing regime. I am asking as many copyright holders as I can

> find if I can release PyCrypto under something clearer and more standard.

> Below, I have quoted a public domain dedication that was recommended in
> `_Intellectual Property and Open Source: A Practical Guide to Protecting
> Code_`, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
> Pointer, and Wim Lewis, and they have all approved the following text for
> their contributions.

>
> I understand that you have made contributions to PyCrypto. May
I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?

>
> =====
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

> =====
>
> Regards,
> - Dwayne
>
> --

> Dwayne C. Litzengerger <dilitz@dilitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256
module, IIRC). I'm fine with the public domain license for PyCrypto.
Jeethu Rao PS: Apologies for the delay in my response.
I don't really check this email address all that often, please direct any further
correspondence to jeethu@jeethu-rao.com
On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzengerger <dilitz@dilitz.net> wrote:

<blockquote class="gmail_quote" style="margin: 0 0 .8ex; border-left: 1px

x #ccc solid;padding-left:1ex;">Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them.

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Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, expressed or implied. Use at your own risk or not at all.

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without

warranty of fitness for use or suitability for any purpose, expressed or implied. Use at your own risk or not at all.

Distribute and use freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without

Incorporating

the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk www.amk.ca

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

I understand that you have made contributions to PyCrypto. May I, on

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)
2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification

Message-ID: <20090505024914.GA9219@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
=====
Distribute and use freely; there
are no restrictions on further
dissemination and usage except those imposed by the laws of your
country of residence. This software is provided "as is" without
warranty of fitness for use or suitability for any purpose, express
or implied. Use at your own risk or not at all.
=====
```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting

Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

```
=====
The contents of this file are dedicated to the public domain. To the
extent that dedication to the public domain is not available, everyone
is granted a worldwide, perpetual, royalty-free, non-exclusive license
to exercise all rights associated with the contents of this file for
any purpose whatsoever. No rights are reserved.
=====
```

Regards,
- Dwayne

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl

Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30

-0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000
Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)
id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)
Received: from firewall66.interaccess.nl (firewall66.interaccess.nl
[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;
Tue, 05 May 2009 09:08:25 +0200
Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
Date: Tue, 05 May 2009 09:08:25 +0200
From: joris@bontje.nl
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Subject: Re: PyCrypto license clarification
References: <20090505024914.GA9219@rivest.dlitz.net>
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset=ISO-8859-1;
format="flowed"
Content-Disposition:
inline
Content-Transfer-Encoding: 7bit
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)
Status: RO
X-Status: A
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

=====
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=====

Regards,
Joris

Citeren

"Dwayne C. Litzenger" <dlitz@dlitz.net>:

> Hi Joris,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at <http://www.pycrypto.org/>.
>
> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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> =====
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> country of residence. This software is provided "as is" without
> warranty of fitness for use or suitability for any purpose, express
> or implied. Use at your own risk or not at all.
> =====
>
>
> Incorporating the code into commercial products is permitted; you do
> not have to make source available or contribute your changes back
> (though that would be nice).
>
> --amk (www.amk.ca)
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> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.

> =====
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzengerger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009
Date: Tue, 5 May 2009 17:53:47 -0400
From: "Dwayne C. Litzengerger" <dlitz@dlitz.net>
To: joris@bontje.nl
Subject: Re: PyCrypto license clarification
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>
References: <20090505024914.GA9219@rivest.dlitz.net>
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
MIME-Version:
1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 3863

Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
>
> Thanks for taking over the PyCrypto library and putting in the required
> effort to keep this going.
> I was very excited to read that it is now one of the installed libraries
> for Google AppsEngine!
>
> You have my full permission to dedicate all my contributions to PyCrypto to
> the

public domain with your suggested notice:

```
> =====
> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents of this file for
> any purpose whatsoever. No rights are reserved.
> =====
>
>
> Regards,
> Joris
>
> Citeren "Dwayne C. Litzenger" <dlitz@dlitz.net>:
>
>> Hi Joris,
>>
>> I am the new maintainer of the Python Cryptography Toolkit, and I am
>> working on a new release at http://www.pycrypto.org/.
>>
>> People often ask me what license PyCrypto is covered by, if it's
>> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
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>> country of residence. This software is provided "as is" without
>> warranty of fitness for use or suitability for any purpose, express
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>> any purpose
whatsoever. No rights are reserved.

>> =====

>>

>> Regards,
>> - Dwayne

>>

>> --

>> Dwayne C. Litzenger <dlitz@dlitz.net>

>> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>

>

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009

Date: Sat, 28 Feb 2009 21:45:09 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification

Message-ID: <20090301024509.GA13195@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's

GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

=====
Distribute and use

freely; there are no restrictions on further dissemination and usage except those imposed by the laws of your country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.
=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.
=====

Regards,
- Dwayne

--

Dwayne C. Litzberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon
Mar 2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230
Received: from mail.wooz.org (216-15-33-230.c3-0.slvr-ubr2.lnh-slvr.md.static.cable.rcn.com [216.15.33.230])
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073
for <dlitz@dlitz.net>;
Mon, 2 Mar 2009 10:29:38 -0600 (CST)
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>
From: Barry Warsaw <barry@python.org>
To: Dwayne C. Litzenger <dlitz@dlitz.net>
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>
Content-Type: text/plain; charset=US-ASCII; format=flowed; delpsp=yes
Content-Transfer-Encoding: quoted-printable
Mime-Version: 1.0 (Apple Message framework v930.3)
Subject: Re: PyCrypto license clarification
Date: Mon, 2 Mar 2009 11:29:34 -0500
References: <20090301024509.GA13195@rivest.dlitz.net>
X-Pgp-Agent: GPGMail d55 (v55, Leopard)
X-Mailer: Apple Mail (2.930.3)
Status: RO
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenger wrote:

> I am the new maintainer of the Python Cryptography Toolkit,
and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

- > I understand that you have made contributions to PyCrypto. May I, =20
- > on your behalf, dedicate to the public domain all your contributions =20=

- > to PyCrypto, with the following notice?

Absolutely yes.

Cheers,
Barry

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk
evkInSJQAcVHIznVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9IIet7PaD9VSYgn3ra5
gElwI2DQDoOy5GExXMm74gqrrb1PCCbCRmpaYNo+DZohwHkeFBjbwDRA3wItOrH7
SK4w9VBJfY=3D
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800

From: Robey Pointer <robey@lag.net>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)

Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

- > For the next PyCrypto release, I would like to take steps to move
- > toward a clearer licensing regime. I am asking as many copyright
- > holders as I can find if I can release PyCrypto under something
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- > dedication that was recommended in Intellectual Property and Open
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```
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> everyone
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> license
> to exercise all rights associated with the contents of this file
> for
> any purpose whatsoever. No rights are reserved.
>
> =
> =====
>
```

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ
SH8AoLJgaq1Ii7/ZYDc+/Cd8VO0xLbr
=Mv6g

-----END PGP SIGNATURE-----

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

1.41 go-context git r0

1.41.1 Available under license :

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1.42 go-mux git r0

1.42.1 Available under license :

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1.43 golang git r0

1.43.1 Available under license :

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1.44 libmnl 1.0.4 r0

1.44.1 Available under license :

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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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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- 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

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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.

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1.47 ca-certificates 20190110 r0

1.48 checkpolicy 2.8 r0

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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.

```
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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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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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

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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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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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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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```
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```

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```
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```

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Version 3, 29 June 2007

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index 0000000..d511905
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+++ b/COPYING
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rJ ~vvn8||8>> 8 xx<">$"> 8 ""UUUUUU >PP
>0~`0~8>~><~<0`0<~<(ll(6f`0|nlll<<<66llllp8|bf0f8l88vv000000l88l~0`||x~|0`|<|<|ll00000||ll~|0`0`00`||
~8lfff|fff<ff<lfffflf`|`ff`|`||<<<p`~~~~bf|fff|`||fff|xlf|`8|~Z<|l8l888lffff<<0`|`~~~~|`0||<fx|v`|fff||~||600000xv~|`
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```
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```

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<signature of Ty Coon>, 1 April 1990
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1.65 libhugetlbfs 2.21 r0

1.66 libidn 1.35 r0

1.66.1 Available under license :

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Version 3, 29 June 2007

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1.72 libusb 1.0.22 r0

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1.73 libxml-parser-perl 2.44 r0

1.74 Izo 2.10 r0

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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 Program.

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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

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```

```
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```
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/* compr1c.h --

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Markus F.X.J. Oberhumer
<markus@oberhumer.com>
<http://www.oberhumer.com/opensource/lzo/>
*/

```
#define LZO_NEED_DICT_H 1
#include "config1c.h"
```

```
#if !defined(COMPRESS_ID)
#define COMPRESS_ID LZO_PP_ECONCAT2(DD_BITS,CLEVEL)
#endif
```

```
#include "lzo1b_c.ch"
```

```
/*
//
***/
```

```
#define LZO_COMPRESS \
LZO_PP_ECONCAT3(lzo1c_,COMPRESS_ID,_compress)
```

```
#define LZO_COMPRESS_FUNC \
LZO_PP_ECONCAT3(_lzo1c_,COMPRESS_ID,_compress_func)
```

```
/*
//
***/
```

```
const lzo_compress_t LZO_COMPRESS_FUNC = do_compress;
```

```

LZO_PUBLIC(int)
LZO_COMPRESS ( const lzo_bytep in, lzo_uint in_len,
               lzo_bytep out, lzo_uintp out_len,
               lzo_voidp wrkmem )
{
    return _lzo1c_do_compress(in,in_len,out,out_len,wrkmem,do_compress);
}

/*
vim:set ts=4 sw=4 et: */

```

1.75 m4 1.4.18 r0

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Version 3, 29 June 2007

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```

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```
/* GNU m4 -- A simple macro processor
```

```
Copyright (C) 1989-1994, 2004-2014, 2016 Free Software Foundation,  
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```

```
This file is part of GNU M4.
```

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

```
*/
```

```
#include "m4.h"
```

```
#include <getopt.h>
```

```
#include <limits.h>
```

```
#include <signal.h>
```

```
#include "c-stack.h"
```

```
#include "ignore-value.h"
```

```
#include "progname.h"
```

```
#include "version-etc.h"
```

```

#ifdef DEBUG_STKOVF
#
include "assert.h"
#endif

#define AUTHORS "Rene' Seindal"

static void usage (int) M4_GNUC_NORETURN;

/* Enable sync output for /lib/cpp (-s). */
int sync_output = 0;

/* Debug (-d[flags]). */
int debug_level = 0;

/* Hash table size (should be a prime) (-Hsize). */
size_t hash_table_size = HASHMAX;

/* Disable GNU extensions (-G). */
int no_gnu_extensions = 0;

/* Prefix all builtin functions by `m4_'. */
int prefix_all_builtins = 0;

/* Max length of arguments in trace output (-lsize). */
int max_debug_argument_length = 0;

/* Suppress warnings about missing arguments. */
int suppress_warnings = 0;

/* If true, then warnings affect exit status. */
static bool fatal_warnings = false;

/* If not zero, then value of exit status for warning diagnostics. */
int warning_status = 0;

/* Artificial limit for expansion_level in macro.c. */
int nesting_limit = 1024;

#ifdef ENABLE_CHANGEWORD
/* User provided regexp for describing m4
words. */
const char *user_word_regexp = "";
#endif

/* Global catchall for any errors that should affect final error status, but
where we try to continue execution in the meantime. */

```

```

int retcode;

struct macro_definition
{
    struct macro_definition *next;
    int code; /* D, U, s, t, 'l', or DEBUGFILE_OPTION. */
    const char *arg;
};
typedef struct macro_definition macro_definition;

/* Error handling functions. */

/*-----
| Wrapper around error. |
`-----*/

void
m4_error (int status, int errnum, const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, current_line ? current_file : NULL,
                    current_line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

/*-----
| Wrapper around error_at_line. |
`-----*/

void
m4_error_at_line (int status,
                  int errnum, const char *file, int line,
                  const char *format, ...)
{
    va_list args;
    va_start (args, format);
    verror_at_line (status, errnum, line ? file : NULL, line, format, args);
    if (fatal_warnings && ! retcode)
        retcode = EXIT_FAILURE;
    va_end (args);
}

#endif
#define SIGBUS SIGILL
#endif

```



```

#ifndef NSIG
# ifndef MAX
# define MAX(a,b) ((a) < (b) ? (b) : (a))
# endif
# define NSIG (MAX (SIGABRT, MAX (SIGILL, MAX (SIGFPE, \
                MAX (SIGSEGV, SIGBUS)))) + 1)
#endif

/* Pre-translated messages for program errors. Do not translate in
   the signal handler, since gettext and strsignal are not
   async-signal-safe. */
static const char * volatile program_error_message;
static const char * volatile signal_message[NSIG];

/* Print a nicer message about any programmer errors, then exit. This
   must be aysnc-signal safe, since it is executed as a signal
   handler. If SIGNO is zero,
   this represents a stack overflow; in
   that case, we return to allow c_stack_action to handle things. */
static void M4_GNUC_PURE
fault_handler (int signo)
{
  if (signo)
    {
      /* POSIX states that reading static memory is, in general, not
         async-safe. However, the static variables that we read are
         never modified once this handler is installed, so this
         particular usage is safe. And it seems an oversight that
         POSIX claims strlen is not async-safe. Ignore write
         failures, since we will exit with non-zero status anyway. */
#define WRITE(f, b, l) ignore_value (write (f, b, l))
      WRITE (STDERR_FILENO, program_name, strlen (program_name));
      WRITE (STDERR_FILENO, ": ", 2);
      WRITE (STDERR_FILENO, program_error_message,
            strlen (program_error_message));
      if (signal_message[signo])
        {
          WRITE (STDERR_FILENO, ": ", 2);
          WRITE (STDERR_FILENO, signal_message[signo],
                strlen (signal_message[signo]));
        }
      WRITE (STDERR_FILENO, "\n", 1);
#undef WRITE
      _exit (EXIT_INTERNAL_ERROR);
    }
}

```

```

/*-----
| Print a usage message and exit with STATUS. |
`-----*/

static void
usage (int status)
{
if (status != EXIT_SUCCESS)
    fprintf (stderr, "Try `%s --help' for more information.\n", program_name);
else
    {
    fprintf ("Usage: %s [OPTION]... [FILE]...\n", program_name);
    fputs ("\n
Process macros in FILEs. If no FILE or if FILE is `-', standard input\n
is read.\n
", stdout);
    fputs ("\n
Mandatory or optional arguments to long options are mandatory or optional\n
for short options too.\n
\n
Operation modes:\n
    --help          display this help and exit\n
    --version       output version information and exit\n
", stdout);
    fprintf ("\n
-E, --fatal-warnings
    once: warnings become errors, twice: stop\n
        execution at first error\n
-i, --interactive   unbuffer output, ignore interrupts\n
-P, --prefix-builtins  force a `m4_' prefix to all builtins\n
-Q, --quiet, --silent  suppress some warnings for builtins\n
    --warn-macro-sequence[=REGEXP]\n
        warn if macro definition matches REGEXP,\n
        default %s\n
", DEFAULT_MACRO_SEQUENCE);
#ifdef ENABLE_CHANGEWORD
    fputs ("\n
-W, --word-regexp=REGEXP  use REGEXP for macro name syntax\n
", stdout);
#endif
    fputs ("\n
Preprocessor features:\n
-D, --define=NAME[=VALUE]  define NAME as having VALUE, or empty\n
-I, --include=DIRECTORY    append DIRECTORY to include path\n
-s, --synclines            generate `#line NUM `FILE' lines\n

```

```

-U, --undefine=NAME      undefine NAME\n\
", stdout);
    puts
    ("");
    xprintf (_("\
Limits control:\n\
-g, --gnu                override -G to re-enable GNU extensions\n\
-G, --traditional       suppress all GNU extensions\n\
-H, --hashsize=PRIME    set symbol lookup hash table size [509]\n\
-L, --nesting-limit=NUMBER  change nesting limit, 0 for unlimited [%d]\n\
"), nesting_limit);
    puts ("");
    fputs ("\
Frozen state files:\n\
-F, --freeze-state=FILE  produce a frozen state on FILE at end\n\
-R, --reload-state=FILE  reload a frozen state from FILE at start\n\
", stdout);
    fputs ("\
\n\
Debugging:\n\
-d, --debug[=FLAGS]     set debug level (no FLAGS implies `aeq')\n\
    --debugfile[=FILE]   redirect debug and trace output to FILE\n\
                        (default stderr, discard if empty string)\n\
-l, --arglength=NUM     restrict macro tracing size\n\
-t, --trace=NAME        trace NAME when it is defined\n\
", stdout);
    fputs
    ("
\n\
FLAGS is any of:\n\
a  show actual arguments\n\
c  show before collect, after collect and after call\n\
e  show expansion\n\
f  say current input file name\n\
i  show changes in input files\n\
l  say current input line number\n\
p  show results of path searches\n\
q  quote values as necessary, with a or e flag\n\
t  trace for all macro calls, not only traceon'ed\n\
x  add a unique macro call id, useful with c flag\n\
V  shorthand for all of the above flags\n\
", stdout);
    fputs ("\
\n\
If defined, the environment variable `M4PATH' is a colon-separated list\n\
of directories included after any specified by `-I'.\n\
", stdout);
    fputs ("\

```

```

\n\
Exit status is 0 for success, 1 for failure, 63 for frozen file version\n\
mismatch, or whatever value was passed to the m4exit macro.\n\
", stdout);
    emit_bug_reporting_address ();
    }
exit (status);
}

/*-----
| Decode options
| and launch execution. |
`-----*/

/* For long options that have no equivalent short option, use a
non-character as a pseudo short option, starting with CHAR_MAX + 1. */
enum
{
    DEBUGFILE_OPTION = CHAR_MAX + 1, /* no short opt */
    DIVERSIONS_OPTION, /* not quite -N, because of message */
    WARN_MACRO_SEQUENCE_OPTION, /* no short opt */

    HELP_OPTION, /* no short opt */
    VERSION_OPTION /* no short opt */
};

static const struct option long_options[] =
{
    {"arglength", required_argument, NULL, 'I'},
    {"debug", optional_argument, NULL, 'd'},
    {"define", required_argument, NULL, 'D'},
    {"error-output", required_argument, NULL, 'o'}, /* FIXME: deprecate in 2.0 */
    {"fatal-warnings", no_argument, NULL, 'E'},
    {"freeze-state", required_argument, NULL, 'F'},
    {"gnu", no_argument, NULL, 'g'},
    {"hashsize", required_argument, NULL, 'H'},
    {"include", required_argument, NULL, 'I'},
    {"interactive", no_argument, NULL, 'i'},
    {"nesting-limit", required_argument, NULL, 'L'},
    {"prefix-builtins", no_argument, NULL, 'P'},
    {"quiet", no_argument, NULL, 'Q'},
    {"reload-state", required_argument, NULL, 'R'},
    {"silent", no_argument, NULL, 'Q'},
    {"synclines", no_argument, NULL, 's'},
    {"trace", required_argument, NULL, 't'},
    {"traditional", no_argument, NULL, 'G'},
    {"undefine", required_argument, NULL, 'U'},
#ifdef ENABLE_CHANGEWORD

```

```

{"word-regexp", required_argument, NULL, 'W'},
#endif

{"debugfile", optional_argument, NULL, DEBUGFILE_OPTION},
{"diversions", required_argument, NULL, DIVERSIONS_OPTION},
{"warn-macro-sequence", optional_argument, NULL, WARN_MACRO_SEQUENCE_OPTION},

{"help", no_argument, NULL, HELP_OPTION},
{"version", no_argument, NULL, VERSION_OPTION},

{ NULL, 0, NULL, 0 },
};

/* Process a command line file NAME, and return true only if it was
   stdin. */
static
void
process_file (const char *name)
{
  if (STREQ (name, "-"))
    {
      /* If stdin is a terminal, we want to allow 'm4 - file -'
         to read input from stdin twice, like GNU cat. Besides,
         there is no point closing stdin before wrapped text, to
         minimize bugs in syscmd called from wrapped text. */
      push_file (stdin, "stdin", false);
    }
  else
    {
      char *full_name;
      FILE *fp = m4_path_search (name, &full_name);
      if (fp == NULL)
        {
          error (0, errno, _("cannot open `%s'"), name);
          /* Set the status to EXIT_FAILURE, even though we
             continue to process files after a missing file. */
          retcode = EXIT_FAILURE;
          return;
        }
      push_file (fp, full_name, true);
      free (full_name);
    }
  expand_input ();
}

/* POSIX requires only -D, -U, and -s; and says that the first two
   must be recognized when interspersed with file names. Traditional

```

```

behavior also handles -s between files. Starting OPTSTRING with
'-' forces getopt_long to hand back file names as arguments to opt
'\1', rather than reordering the command line. */
#ifdef ENABLE_CHANGEWORD
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:W:d::egil:o:st:"
#else
#define OPTSTRING "-B:D:EF:GH:I:L:N:PQR:S:T:U:d::egil:o:st:"
#endif

int
main (int argc, char *const *argv)
{
    struct sigaction act;
    macro_definition *head;    /* head of deferred argument list */
    macro_definition *tail;
    macro_definition *defn;
    int optchar;              /* option character */

    macro_definition *defines;
    bool interactive = false;
    bool seen_file = false;
    const char *debugfile = NULL;
    const char *frozen_file_to_read = NULL;
    const char *frozen_file_to_write = NULL;
    const char *macro_sequence = "";

    set_program_name (argv[0]);
    retcode = EXIT_SUCCESS;
    atexit (close_stdin);

    include_init ();
    debug_init ();

    /* Stack
overflow and program error handling. Ignore failure to
install a handler, since this is merely for improved output on
crash, and we should never crash ;). We install SIGBUS and
SIGSEGV handlers prior to using the c-stack module; depending on
the platform, c-stack will then override none, SIGSEGV, or both
handlers. */
    program_error_message
    = xasprintf (_("internal error detected; please report this bug to <%s>"),
                PACKAGE_BUGREPORT);
    signal_message[SIGSEGV] = xstrdup (strsignal (SIGSEGV));
    signal_message[SIGABRT] = xstrdup (strsignal (SIGABRT));
    signal_message[SIGILL] = xstrdup (strsignal (SIGILL));
    signal_message[SIGFPE] = xstrdup (strsignal (SIGFPE));
    if (SIGBUS != SIGILL && SIGBUS != SIGSEGV)

```

```

    signal_message[SIGBUS] = xstrdup (strsignal (SIGBUS));
sigemptyset (&act.sa_mask);
/* One-shot - if we fault while handling a fault, we want to revert
   to default signal behavior. */
act.sa_flags = SA_NODEFER
| SA_RESETHAND;
act.sa_handler = fault_handler;
sigaction (SIGSEGV, &act, NULL);
sigaction (SIGABRT, &act, NULL);
sigaction (SIGILL, &act, NULL);
sigaction (SIGFPE, &act, NULL);
sigaction (SIGBUS, &act, NULL);
if (c_stack_action (fault_handler) == 0)
    nesting_limit = 0;

#ifdef DEBUG_STKOVF
/* Make it easier to test our fault handlers. Exporting M4_CRASH=0
   attempts a SIGSEGV, exporting it as 1 attempts an assertion
   failure with a fallback to abort. */
{
    char *crash = getenv ("M4_CRASH");
    if (crash)
        {
            if (!strtol (crash, NULL, 10))
                ++*(int *) 8;
            assert (false);
            abort ();
        }
}
#endif /* DEBUG_STKOVF */

/* First, we decode the arguments, to size up tables and stuff. */
head = tail = NULL;

while ((optchar = getopt_long (argc, (char **) argv, OPTSTRING,
                             long_options, NULL)) != -1)
    switch (optchar)
        {
        default:
            usage (EXIT_FAILURE);

        case 'B':
        case 'S':
        case 'T':
            /* Compatibility junk: options that other implementations
               support, but which we ignore as no-ops and don't list in
               --help. */
            error (0, 0, _("warning: `m4 -%c' may be removed in a future release"),

```

```

    optchar);
break;

case 'N':
case DIVERSIONS_OPTION:
    /* -N became an obsolete no-op in 1.4.x. */
    error (0, 0, _("warning: `m4 %s' is deprecated"),
        optchar == 'N' ? "-N" : "--diversions");
    break;

case 'D':
case 'U':
case 's':
case 't':
case '\l':
case DEBUGFILE_OPTION:
    /* Arguments that cannot be handled until later are accumulated. */

    defn = (macro_definition *) xmalloc (sizeof (macro_definition));
    defn->code = optchar;
    defn->arg = optarg;
    defn->next = NULL;

    if (head == NULL)

head = defn;
    else
        tail->next = defn;
    tail = defn;

    break;

case 'E':
    if (!fatal_warnings)
        fatal_warnings = true;
    else
        warning_status = EXIT_FAILURE;
    break;

case 'F':
    frozen_file_to_write = optarg;
    break;

case 'G':
    no_gnu_extensions = 1;
    break;

case 'H':

```



```

hash_table_size = strtol (optarg, NULL, 10);
if (hash_table_size == 0)
    hash_table_size = HASHMAX;
break;

case 'I':
    add_include_directory (optarg);
break;

case 'L':
    nesting_limit = strtol (optarg, NULL, 10);
break;

case 'P':
    prefix_all_builtins = 1;
break;

case 'Q':
    suppress_warnings = 1;
break;

case 'R':
    frozen_file_to_read = optarg;
break;

#ifdef ENABLE_CHANGEWORD
    case 'W':
        user_word_regexp
= optarg;
        break;
#endif

case 'd':
    debug_level = debug_decode (optarg);
    if (debug_level < 0)
        {
            error (0, 0, _("bad debug flags: `%s'"), optarg);
            debug_level = 0;
        }
    break;

case 'e':
    error (0, 0, _("warning: `m4 -e' is deprecated, use `-i' instead"));
    /* fall through */
case 'i':
    interactive = true;
break;

```

```

case 'g':
    no_gnu_extensions = 0;
    break;

case 'l':
    max_debug_argument_length = strtol (optarg, NULL, 10);
    if (max_debug_argument_length <= 0)
        max_debug_argument_length = 0;
    break;

case 'o':
    /* -o/--error-output are deprecated synonyms of --debugfile,
       but don't issue a deprecation warning until autoconf 2.61
       or later is more widely established, as such a warning
       would interfere with all earlier versions of autoconf.
    */
    /* Don't call debug_set_output here, as it has side effects. */
    debugfile = optarg;
    break;

case WARN_MACRO_SEQUENCE_OPTION:
    /* Don't call set_macro_sequence here, as it can exit.
       --warn-macro-sequence sets optarg to NULL (which uses the
       default regexp); --warn-macro-sequence= sets optarg to ""
       (which disables these warnings). */
    macro_sequence = optarg;
    break;

case VERSION_OPTION:
    version_etc (stdout, PACKAGE, PACKAGE_NAME, VERSION, AUTHORS, NULL);
    exit (EXIT_SUCCESS);
    break;

case HELP_OPTION:
    usage (EXIT_SUCCESS);
    break;
}

defines = head;

/* Do the basic initializations. */
if (debugfile && !debug_set_output (debugfile))
    M4ERROR ((warning_status, errno, "cannot set debug file `%s'", debugfile));

input_init ();
output_init ();
symtab_init ();
set_macro_sequence (macro_sequence);

```

```

include_env_init ();

if (frozen_file_to_read)
    reload_frozen_state (frozen_file_to_read);
else
    builtin_init ();

/* Interactive mode means unbuffered output, and interrupts ignored. */

if (interactive)
{
    signal (SIGINT, SIG_IGN);
    setbuf (stdout, (char *) NULL);
}

/* Handle deferred command line macro definitions. Must come after
initialization of the symbol table. */

while (defines != NULL)
{
    macro_definition *next;
    symbol *sym;

    switch (defines->code)
    {
        case 'D':
            {
                /* defines->arg is read-only, so we need a copy. */
                char *macro_name = xstrdup (defines->arg);
                char *macro_value = strchr (macro_name, '=');
                if (macro_value)
                    *macro_value++ = '\0';
                define_user_macro (macro_name, macro_value, SYMBOL_INSERT);
                free (macro_name);
            }
            break;

        case
'U':
            lookup_symbol (defines->arg, SYMBOL_DELETE);
            break;

        case 't':
            sym = lookup_symbol (defines->arg, SYMBOL_INSERT);
            SYMBOL_TRACED (sym) = true;
            break;

        case 's':

```

```

    sync_output = 1;
    break;

case '\1':
    seen_file = true;
    process_file (defines->arg);
    break;

case DEBUGFILE_OPTION:
    if (!debug_set_output (defines->arg))
        M4ERROR ((warning_status, errno, "cannot set debug file `%s",
                debugfile ? debugfile : _("stderr")));
    break;

default:
    M4ERROR ((0, 0, "INTERNAL ERROR: bad code in deferred arguments"));
    abort ();
}

next = defines->next;
free (defines);
defines = next;
}

/* Handle remaining input files. Each file is pushed on the input,
   and the input read. Wrapup text is handled separately later. */

if (optind == argc && !seen_file)
    process_file ("-");
else
    for (; optind < argc; optind++)
        process_file (argv[optind]);

/* Now handle wrapup text. */

while (pop_wrapup ())
    expand_input ();

/* Change debug stream back to stderr, to force flushing the debug
   stream and detect any errors it might have encountered. The
   three standard streams are closed by close_stdin. */
debug_set_output (NULL);

if (frozen_file_to_write)
    produce_frozen_state (frozen_file_to_write);
else
    {
        make_diversion (0);
    }

```

```
    undivert_all ();
}
output_exit ();
free_macro_sequence ();
exit (retcode);
}
```

1.76 make 4.2.1 r0

1.76.1 Available under license :

NOT PROVIDED

/* Argument parsing and main program of GNU Make.

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```
#include "makeint.h"
#include "os.h"
#include "filedef.h"
#include "dep.h"
#include "variable.h"
#include "job.h"
#include "commands.h"
#include "rule.h"
#include "debug.h"
#include "getopt.h"

#include <assert.h>
#ifdef _AMIGA
#
# include <dos/dos.h>
# include <proto/dos.h>
#endif
#ifdef WINDOWS32
# include <windows.h>
# include <io.h>
```

```

#include "pathstuff.h"
#include "sub_proc.h"
#include "w32err.h"
#endif
#ifdef __EMX__
#include <sys/types.h>
#include <sys/wait.h>
#endif
#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef _AMIGA
int __stack = 20000; /* Make sure we have 20K of stack space */
#endif
#ifdef VMS
int vms_use_mcr_command = 0;
int vms_always_use_cmd_file = 0;
int vms_gnv_shell = 0;
int vms_legacy_behavior = 0;
int vms_comma_separator = 0;
int vms_unix_simulation = 0;
int vms_report_unix_paths = 0;

/* Evaluates if a VMS environment option is set, only look at first character */
static int
get_vms_env_flag (const char *name, int default_value)
{
    char * value;
    char x;

    value = getenv (name);
    if (value == NULL)
        return default_value;

    x = toupper (value[0]);
    switch (x)
    {
        case 'I':
        case 'T':
        case 'E':
            return 1;
            break;
        case 'O':
        case 'F':
        case 'D':
            return 0;
    }
}

```

```

}
#endif

#if defined HAVE_WAITPID || defined HAVE_WAIT3
# define HAVE_WAIT_NOHANG
#endif

#ifndef HAVE_UNISTD_H
int chdir ();
#endif
#ifndef STDC_HEADERS
# ifndef sun          /* Sun has an incorrect decl in a header. */
void exit (int) __attribute__ ((noreturn));
# endif
double atof ();
#endif

static void clean_jobserver (int status);
static void print_data_base (void);
static void print_version (void);
static void decode_switches (int argc, const char **argv, int env);
static void decode_env_switches (const char *envar, unsigned int len);
static struct variable *define_makeflags (int all, int makefile);
static char *quote_for_env (char *out, const char *in);
static void initialize_global_hash_tables (void);

/* The structure that describes an accepted command switch. */

struct command_switch
{
    int c;          /* The switch character. */

    enum
    {
        flag,      /* Turn int flag on. */
        flag_off,  /* Turn int flag off. */
        string,     /* One string per invocation. */
        strlist,    /* One string per switch. */
        filename,   /* A string containing a file name. */
        positive_int, /* A positive integer. */
        floating,   /* A floating-point number (double). */
        ignore      /* Ignored. */
    } type;

    void *value_ptr; /* Pointer to the value-holding variable. */

    unsigned int env:1; /* Can come from MAKEFLAGS. */

```

```

unsigned int toenv:1;    /* Should be put in MAKEFLAGS. */
unsigned int no_makefile:1; /* Don't propagate when remaking makefiles. */

const void *noarg_value; /* Pointer to value used if no arg given. */
const void *default_value; /* Pointer
to default value. */

const char *long_name; /* Long option name. */
};

/* True if C is a switch value that corresponds to a short option. */

#define short_option(c) ((c) <= CHAR_MAX)

/* The structure used to hold the list of strings given
in command switches of a type that takes strlist arguments. */

struct stringlist
{
const char **list; /* Nil-terminated list of strings. */
unsigned int idx; /* Index into above. */
unsigned int max; /* Number of pointers allocated. */
};

/* The recognized command switches. */

/* Nonzero means do extra verification (that may slow things down). */

int verify_flag;

/* Nonzero means do not print commands to be executed (-s). */

int silent_flag;

/* Nonzero means just touch the files
that would appear to need remaking (-t) */

int touch_flag;

/* Nonzero means just print what commands would need to be executed,
don't actually execute them (-n). */

int
just_print_flag;

/* Print debugging info (--debug). */

```



```
static struct stringlist *db_flags = 0;
static int debug_flag = 0;

int db_level = 0;

/* Synchronize output (--output-sync). */

char *output_sync_option = 0;

#ifdef WINDOWS32
/* Suspend make in main for a short time to allow debugger to attach */

int suspend_flag = 0;
#endif

/* Environment variables override makefile definitions. */

int env_overrides = 0;

/* Nonzero means ignore status codes returned by commands
   executed to remake files. Just treat them all as successful (-i). */

int ignore_errors_flag = 0;

/* Nonzero means don't remake anything, just print the data base
   that results from reading the makefile (-p). */

int print_data_base_flag = 0;

/* Nonzero means don't remake anything; just return a nonzero status
   if the specified targets are not up to date (-q). */

int question_flag = 0;

/* Nonzero means do not use any of the builtin rules (-r) / variables (-R).
   */

int no_builtin_rules_flag = 0;
int no_builtin_variables_flag = 0;

/* Nonzero means keep going even if remaking some file fails (-k). */

int keep_going_flag;
int default_keep_going_flag = 0;

/* Nonzero means check symlink mtimes. */

int check_symlink_flag = 0;
```

```

/* Nonzero means print directory before starting and when done (-w). */

int print_directory_flag = 0;

/* Nonzero means ignore print_directory_flag and never print the directory.
   This is necessary because print_directory_flag is set implicitly. */

int inhibit_print_directory_flag = 0;

/* Nonzero means print version information. */

int print_version_flag = 0;

/* List of makefiles given with -f switches. */

static struct stringlist *makefiles = 0;

/* Size of the stack when we started. */

#ifdef SET_STACK_SIZE
struct rlimit stack_limit;
#endif

/* Number of job slots for parallelism. */

unsigned int job_slots;

#define INVALID_JOB_SLOTS (-1)
static unsigned int
    master_job_slots = 0;
static int arg_job_slots = INVALID_JOB_SLOTS;

static const int default_job_slots = INVALID_JOB_SLOTS;

/* Value of job_slots that means no limit. */

static const int inf_jobs = 0;

/* Authorization for the jobserver. */

static char *jobserver_auth = NULL;

/* Handle for the mutex used on Windows to synchronize output of our
   children under -O. */

char *sync_mutex = NULL;

```

```

/* Maximum load average at which multiple jobs will be run.
   Negative values mean unlimited, while zero means limit to
   zero load (which could be useful to start infinite jobs remotely
   but one at a time locally). */
#ifndef NO_FLOAT
double max_load_average = -1.0;
double default_load_average = -1.0;
#else
int max_load_average = -1;
int default_load_average = -1;
#endif

/* List of directories given with -C switches. */

static struct stringlist *directories = 0;

/* List of include directories given with -I switches. */

static struct stringlist
*include_directories = 0;

/* List of files given with -o switches. */

static struct stringlist *old_files = 0;

/* List of files given with -W switches. */

static struct stringlist *new_files = 0;

/* List of strings to be eval'd. */
static struct stringlist *eval_strings = 0;

/* If nonzero, we should just print usage and exit. */

static int print_usage_flag = 0;

/* If nonzero, we should print a warning message
   for each reference to an undefined variable. */

int warn_undefined_variables_flag;

/* If nonzero, always build all targets, regardless of whether
   they appear out of date or not. */

static int always_make_set = 0;
int always_make_flag = 0;

```

```

/* If nonzero, we're in the "try to rebuild makefiles" phase. */

int rebuilding_makefiles = 0;

/* Remember the original value of the SHELL variable, from the environment. */

struct variable shell_var;

/* This character introduces a command: it's the first char on the line. */

char
cmd_prefix = '\t';

/* The usage output. We write it this way to make life easier for the
   translators, especially those trying to translate to right-to-left
   languages like Hebrew. */

static const char *const usage[] =
{
    N_("Options:\n"),
    N_("\
-b, -m          Ignored for compatibility.\n"),
    N_("\
-B, --always-make      Unconditionally make all targets.\n"),
    N_("\
-C DIRECTORY, --directory=DIRECTORY\n\
                    Change to DIRECTORY before doing anything.\n"),
    N_("\
-d          Print lots of debugging information.\n"),
    N_("\
--debug[=FLAGS]      Print various types of debugging information.\n"),
    N_("\
-e, --environment-overrides\n\
                    Environment variables override makefiles.\n"),
    N_("\
--eval=STRING      Evaluate STRING as a makefile statement.\n"),
    N_("\
-f FILE, --file=FILE, --makefile=FILE\n\
                    Read FILE as a makefile.\n"),
    N_("\
-h, --help          Print this message and exit.\n"),
    N_("\
-i, --ignore-errors      Ignore errors from recipes.\n"),
    N_("\
-I DIRECTORY, --include-dir=DIRECTORY\n\
                    Search DIRECTORY for included makefiles.\n"),
    N_("\

```

-j [N], --jobs[=N] Allow N jobs at once; infinite jobs with no arg.\n"),
N_("\n

-k, --keep-going Keep going when some targets can't be made.\n"),
N_("\n

-l [N], --load-average[=N], --max-load[=N]\n\
Don't start multiple jobs unless load is below N.\n"),
N_("\n

-L, --check-symlink-times Use the latest mtime between symlinks and target.\n"),
N_("\n

-n, --just-print, --dry-run, --recon\n\
Don't actually run any recipe; just print them.\n"),
N_("\n

-o FILE, --old-file=FILE, --assume-old=FILE\n\
Consider FILE to be very old and don't remake it.\n"),
N_("\n

-O[TYPE], --output-sync[=TYPE]\n\
Synchronize output of parallel jobs by TYPE.\n"),
N_("\n

-p, --print-data-base Print make's internal database.\n"),
N_("\n

-q, --question Run no recipe; exit status says if up to date.\n"),
N_("\n

-r, --no-builtin-rules Disable the built-in implicit rules.\n"),
N_("\n

-R, --no-builtin-variables Disable the built-in variable settings.\n"),
N_("\n

-s, --silent, --quiet Don't echo recipes.\n"),
N_("\n

-S, --no-keep-going, --stop\n\
Turns off -k.\n"),
N_("\n

-t, --touch Touch targets instead of remaking them.\n"),
N_("\n

--trace Print tracing information.\n"),
N_("\n

-v, --version Print the version number of make and exit.\n"),
N_("\n

-w, --print-directory Print the
current directory.\n"),
N_("\n

--no-print-directory Turn off -w, even if it was turned on implicitly.\n"),
N_("\n

-W FILE, --what-if=FILE, --new-file=FILE, --assume-new=FILE\n\
Consider FILE to be infinitely new.\n"),
N_("\n

--warn-undefined-variables Warn when an undefined variable is referenced.\n"),
NULL

```

};

/* The table of command switches.
Order matters here: this is the order MAKEFLAGS will be constructed.
So be sure all simple flags (single char, no argument) come first. */

static const struct command_switch switches[] =
{
    { 'b', ignore, 0, 0, 0, 0, 0, 0 },
    { 'B', flag, &always_make_set, 1, 1, 0, 0, 0, "always-make" },
    { 'd', flag, &debug_flag, 1, 1, 0, 0, 0 },
#ifdef WINDOWS32
    { 'D', flag, &suspend_flag, 1, 1, 0, 0, 0, "suspend-for-debug" },
#endif
    { 'e', flag, &env_overrides, 1, 1, 0, 0, 0, "environment-overrides" },
    { 'h', flag, &print_usage_flag, 0, 0,
0, 0, 0, "help" },
    { 'i', flag, &ignore_errors_flag, 1, 1, 0, 0, 0, "ignore-errors" },
    { 'k', flag, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
"keep-going" },
    { 'L', flag, &check_symlink_flag, 1, 1, 0, 0, 0, "check-symlink-times" },
    { 'm', ignore, 0, 0, 0, 0, 0, 0 },
    { 'n', flag, &just_print_flag, 1, 1, 1, 0, 0, "just-print" },
    { 'p', flag, &print_data_base_flag, 1, 1, 0, 0, 0, "print-data-base" },
    { 'q', flag, &question_flag, 1, 1, 1, 0, 0, "question" },
    { 'r', flag, &no_builtin_rules_flag, 1, 1, 0, 0, 0, "no-builtin-rules" },
    { 'R', flag, &no_builtin_variables_flag, 1, 1, 0, 0, 0,
"no-builtin-variables" },
    { 's', flag, &silent_flag, 1, 1, 0, 0, 0, "silent" },
    { 'S', flag_off, &keep_going_flag, 1, 1, 0, 0, &default_keep_going_flag,
"no-keep-going" },
    { 't', flag, &touch_flag, 1, 1, 1, 0, 0, "touch" },
    { 'v', flag, &print_version_flag, 1, 1, 0, 0, 0, "version" },
    { 'w', flag, &print_directory_flag,
1, 1, 0, 0, 0, "print-directory" },

    /* These options take arguments. */
    { 'C', filename, &directories, 0, 0, 0, 0, 0, "directory" },
    { 'f', filename, &makefiles, 0, 0, 0, 0, 0, "file" },
    { 'I', filename, &include_directories, 1, 1, 0, 0, 0,
"include-dir" },
    { 'j', positive_int, &arg_job_slots, 1, 1, 0, &inf_jobs, &default_job_slots,
"jobs" },
#ifdef NO_FLOAT
    { 'l', floating, &max_load_average, 1, 1, 0, &default_load_average,
&default_load_average, "load-average" },
#else
    { 'l', positive_int, &max_load_average, 1, 1, 0, &default_load_average,

```

```

    &default_load_average, "load-average" },
#endif
    { 'o', filename, &old_files, 0, 0, 0, 0, "old-file" },
    { 'O', string, &output_sync_option, 1, 1, 0, "target", 0, "output-sync" },
    { 'W', filename, &new_files, 0, 0, 0, 0, "what-if" },

    /* These are long-style options. */
    { CHAR_MAX+1, strlist, &db_flags, 1, 1, 0, "basic", 0, "debug"
    },
    { CHAR_MAX+2, string, &jobserver_auth, 1, 1, 0, 0, 0, "jobserver-auth" },
    { CHAR_MAX+3, flag, &trace_flag, 1, 1, 0, 0, 0, "trace" },
    { CHAR_MAX+4, flag, &inhibit_print_directory_flag, 1, 1, 0, 0, 0,
    "no-print-directory" },
    { CHAR_MAX+5, flag, &warn_undefined_variables_flag, 1, 1, 0, 0, 0,
    "warn-undefined-variables" },
    { CHAR_MAX+6, strlist, &eval_strings, 1, 0, 0, 0, 0, "eval" },
    { CHAR_MAX+7, string, &sync_mutex, 1, 1, 0, 0, 0, "sync-mutex" },
    { 0, 0, 0, 0, 0, 0, 0, 0, 0 }
};

/* Secondary long names for options. */

static struct option long_option_aliases[] =
{
    { "quiet",    no_argument,    0, 's' },
    { "stop",    no_argument,    0, 'S' },
    { "new-file", required_argument, 0, 'W' },
    { "assume-new", required_argument, 0, 'W' },
    { "assume-old", required_argument, 0, 'o' },
    { "max-load", optional_argument, 0, 'l' },
    { "dry-run",
        no_argument,    0, 'n' },
    { "recon",    no_argument,    0, 'n' },
    { "makefile", required_argument, 0, 'f' },
};

/* List of goal targets. */

static struct goaldep *goals, *lastgoal;

/* List of variables which were defined on the command line
(or, equivalently, in MAKEFLAGS). */

struct command_variable
{
    struct command_variable *next;
    struct variable *variable;
};

```

```

static struct command_variable *command_variables;

/* The name we were invoked with. */

#ifdef WINDOWS32
/* On MS-Windows, we chop off the .exe suffix in 'main', so this
cannot be 'const'. */
char *program;
#else
const char *program;
#endif

/* Our current directory before processing any -C options. */

char *directory_before_chdir;

/* Our current directory after processing all -C options. */

char *starting_directory;

/* Value of the MAKELEVEL variable at startup (or 0). */

unsigned int makelevel;

/*
Pointer to the value of the .DEFAULT_GOAL special variable.
The value will be the name of the goal to remake if the command line
does not override it. It can be set by the makefile, or else it's
the first target defined in the makefile whose name does not start
with '!'. */

struct variable * default_goal_var;

/* Pointer to structure for the file .DEFAULT
whose commands are used for any file that has none of its own.
This is zero if the makefiles do not define .DEFAULT. */

struct file *default_file;

/* Nonzero if we have seen the magic '.POSIX' target.
This turns on pedantic compliance with POSIX.2. */

int posix_pedantic;

/* Nonzero if we have seen the '.SECONDEXPANSION' target.
This turns on secondary expansion of prerequisites. */

int second_expansion;

```



```

/* Nonzero if we have seen the 'ONESHELL' target.
   This causes the entire recipe to be handed to SHELL
   as a single string, potentially containing newlines. */

int
one_shell;

/* One of OUTPUT_SYNC_* if the "--output-sync" option was given. This
   attempts to synchronize the output of parallel jobs such that the results
   of each job stay together. */

int output_sync = OUTPUT_SYNC_NONE;

/* Nonzero if the "--trace" option was given. */

int trace_flag = 0;

/* Nonzero if we have seen the 'NOTPARALLEL' target.
   This turns off parallel builds for this invocation of make. */

int not_parallel;

/* Nonzero if some rule detected clock skew; we keep track so (a) we only
   print one warning about it during the run, and (b) we can print a final
   warning at the end of the run. */

int clock_skew_detected;

/* Map of possible stop characters for searching strings. */
#ifdef UCHAR_MAX
# define UCHAR_MAX 255
#endif
unsigned short stopchar_map[UCHAR_MAX + 1] = {0};

/* If output-sync is enabled we'll collect all the output generated due to
   options, while reading makefiles, etc. */

struct output make_sync;

/*
   Mask of signals that are being caught with fatal_error_signal. */

#ifdef POSIX
sigset_t fatal_signal_set;
#else
# ifdef HAVE_SIGSETMASK

```

```

int fatal_signal_mask;
# endif
#endif

#if !HAVE_DECL_BSD_SIGNAL && !defined bsd_signal
# if !defined HAVE_SIGACTION
# define bsd_signal signal
# else
typedef RETSIGTYPE (*bsd_signal_ret_t) (int);

static bsd_signal_ret_t
bsd_signal (int sig, bsd_signal_ret_t func)
{
    struct sigaction act, oact;
    act.sa_handler = func;
    act.sa_flags = SA_RESTART;
    sigemptyset (&act.sa_mask);
    sigaddset (&act.sa_mask, sig);
    if (sigaction (sig, &act, &oact) != 0)
        return SIG_ERR;
    return oact.sa_handler;
}
# endif
#endif

static void
initialize_global_hash_tables (void)
{
    init_hash_global_variable_set ();
    strcache_init ();
    init_hash_files ();
    hash_init_directories ();
    hash_init_function_table ();
}

/* This character map locate stop chars when parsing GNU makefiles.
   Each element is true if
   we should stop parsing on that character. */

static void
initialize_stopchar_map (void)
{
    int i;

    stopchar_map[(int)'0'] = MAP_NUL;
    stopchar_map[(int) '#'] = MAP_COMMENT;
    stopchar_map[(int) ';'] = MAP_SEMI;
    stopchar_map[(int) '='] = MAP_EQUALS;
}

```

```

stopchar_map[(int)'] = MAP_COLON;
stopchar_map[(int)'%'] = MAP_PERCENT;
stopchar_map[(int)'] = MAP_PIPE;
stopchar_map[(int)'.'] = MAP_DOT | MAP_USERFUNC;
stopchar_map[(int)','] = MAP_COMMA;
stopchar_map[(int)$'] = MAP_VARIABLE;

stopchar_map[(int)'] = MAP_USERFUNC;
stopchar_map[(int)'] = MAP_USERFUNC;

stopchar_map[(int)'] = MAP_BLANK;
stopchar_map[(int)\t'] = MAP_BLANK;

stopchar_map[(int)'] = MAP_DIRSEP;
#if defined(VMS)
stopchar_map[(int)'] = MAP_DIRSEP;
stopchar_map[(int)'] = MAP_DIRSEP;
stopchar_map[(int)'] = MAP_DIRSEP;
#elif defined(HAVE_DOS_PATHS)
stopchar_map[(int)\'] = MAP_DIRSEP;
#endif

for (i = 1; i <= UCHAR_MAX; ++i)
{

if (isspace (i) && NONE_SET (stopchar_map[i], MAP_BLANK))
    /* Don't mark blank characters as newline characters. */
    stopchar_map[i] = MAP_NEWLINE;
else if (isalnum (i))
    stopchar_map[i] = MAP_USERFUNC;
}
}

static const char *
expand_command_line_file (const char *name)
{
const char *cp;
char *expanded = 0;

if (name[0] == '\0')
    O (fatal, NILF, _("empty string invalid as file name"));

if (name[0] == '~')
{
expanded = tilde_expand (name);
if (expanded && expanded[0] != '\0')
    name = expanded;
}
}

```

```

/* This is also done in parse_file_seq, so this is redundant
   for names read from makefiles. It is here for names passed
   on the command line. */
while (name[0] == '.' && name[1] == '/')
{
    name += 2;
    while (name[0] == '/')
        /* Skip following slashes: "./foo" is "foo", not "/foo". */
        ++name;
}

if (name[0] == '\0')
{
    /* Nothing
else but one or more "./", maybe plus slashes! */
    name = "./";
}

cp = strcache_add (name);

free (expanded);

return cp;
}

/* Toggle -d on receipt of SIGUSR1. */

#ifdef SIGUSR1
static RETSIGTYPE
debug_signal_handler (int sig UNUSED)
{
    db_level = db_level ? DB_NONE : DB_BASIC;
}
#endif

static void
decode_debug_flags (void)
{
    const char **pp;

    if (debug_flag)
        db_level = DB_ALL;

    if (db_flags)
        for (pp=db_flags->list; *pp; ++pp)
            {
                const char *p = *pp;

```

```

while (1)
{
    switch (tolower (p[0]))
    {
        case 'a':
            db_level |= DB_ALL;
            break;
        case 'b':
            db_level |= DB_BASIC;
            break;
        case 'i':
            db_level |= DB_BASIC | DB_IMPLICIT;
            break;
        case 'j':
            db_level |= DB_JOBS;
            break;

        case 'm':
            db_level |= DB_BASIC | DB_MAKEFILES;
            break;
        case 'n':
            db_level = 0;
            break;
        case 'v':
            db_level |= DB_BASIC | DB_VERBOSE;
            break;
        default:
            OS (fatal, NILF,
                _("unknown debug level specification '%s'"), p);
    }

    while (*(++p) != '\0')
        if (*p == ',' || *p == ' ')
        {
            ++p;
            break;
        }

        if (*p == '\0')
            break;
    }
}

if (db_level)
    verify_flag = 1;

if (! db_level)

```

```

    debug_flag = 0;
}

static void
decode_output_sync_flags (void)
{
#ifdef NO_OUTPUT_SYNC
    output_sync = OUTPUT_SYNC_NONE;
#else
    if (output_sync_option)
    {
        if (streq (output_sync_option, "none"))
            output_sync = OUTPUT_SYNC_NONE;
        else
            if (streq (output_sync_option, "line"))
                output_sync = OUTPUT_SYNC_LINE;
            else if (streq (output_sync_option, "target"))
                output_sync = OUTPUT_SYNC_TARGET;
            else if (streq (output_sync_option, "recurse"))
                output_sync = OUTPUT_SYNC_RECURSE;
            else
                OS (fatal, NILF,
                    _("unknown output-sync type '%s'"), output_sync_option);
    }

    if (sync_mutex)
        RECORD_SYNC_MUTEX (sync_mutex);
#endif
}

#ifdef WINDOWS32

#ifndef NO_OUTPUT_SYNC

/* This is called from start_job_command when it detects that
   output_sync option is in effect. The handle to the synchronization
   mutex is passed, as a string, to sub-makes via the --sync-mutex
   command-line argument. */
void
prepare_mutex_handle_string (sync_handle_t handle)
{
    if (!sync_mutex)
    {
        /* Prepare the mutex handle string for our children. */
        /* 2 hex digits per byte + 2 characters for "0x" + null. */
        sync_mutex = xmalloc ((2 * sizeof
            (sync_handle_t)) + 2 + 1);
        sprintf (sync_mutex, "0x%Ix", handle);
    }
}

```

```

    define_makeflags (1, 0);
}
}

#endif /* NO_OUTPUT_SYNC */

/*
 * HANDLE runtime exceptions by avoiding a requestor on the GUI. Capture
 * exception and print it to stderr instead.
 *
 * If ! DB_VERBOSE, just print a simple message and exit.
 * If DB_VERBOSE, print a more verbose message.
 * If compiled for DEBUG, let exception pass through to GUI so that
 * debuggers can attach.
 */
LONG WINAPI
handle_runtime_exceptions (struct _EXCEPTION_POINTERS *exinfo)
{
    PEXCEPTION_RECORD exrec = exinfo->ExceptionRecord;
    LPSTR cmdline = GetCommandLine ();
    LPSTR prg = strtok (cmdline, " ");
    CHAR errmsg[1024];
#ifdef USE_EVENT_LOG
    HANDLE hEventSource;
    LPTSTR lpszStrings[1];
#endif
#endif

    if (! ISDB (DB_VERBOSE))
    {
        sprintf (errmsg,
            _("%s: Interrupt/Exception caught (code = 0x%lx, addr = 0x%p)\n"),
            prg, exrec->ExceptionCode, exrec->ExceptionAddress);
        fprintf (stderr, errmsg);
        exit (255);
    }

    sprintf (errmsg,
        _("\nUnhandled exception filter called from program %s\nExceptionCode = %lx\nExceptionFlags =
        %lx\nExceptionAddress = 0x%p\n"),
        prg, exrec->ExceptionCode, exrec->ExceptionFlags,
        exrec->ExceptionAddress);

    if (exrec->ExceptionCode == EXCEPTION_ACCESS_VIOLATION
        && exrec->NumberParameters >= 2)
        sprintf (&errmsg[strlen(errmsg)],
            (exrec->ExceptionInformation[0]
            ? _("Access violation: write operation at address 0x%p\n")
            : _("Access violation: read operation at address 0x%p\n")),

```

```

(PVOID)exrec->ExceptionInformation[1]);

/* turn this on if we want to put stuff in the event log too */
#ifdef USE_EVENT_LOG
hEventSource = RegisterEventSource (NULL, "GNU Make");
lpszStrings[0] = errmsg;

if (hEventSource != NULL)
{
    ReportEvent (hEventSource,      /* handle of event
source */
                EVENTLOG_ERROR_TYPE, /* event type */
                0,                  /* event category */
                0,                  /* event ID */
                NULL,               /* current user's SID */
                1,                  /* strings in lpszStrings */
                0,                  /* no bytes of raw data */
                lpszStrings,        /* array of error strings */
                NULL);              /* no raw data */

    (VOID) DeregisterEventSource (hEventSource);
}
#endif

/* Write the error to stderr too */
fprintf (stderr, errmsg);

#ifdef DEBUG
return EXCEPTION_CONTINUE_SEARCH;
#else
exit (255);
return (255); /* not reached */
#endif
}

/*
* On WIN32 systems we don't have the luxury of a /bin directory that
* is mapped globally to every drive mounted to the system. Since make could
* be invoked from any drive, and we don't want to propagate
/bin/sh
* to every single drive. Allow ourselves a chance to search for
* a value for default shell here (if the default path does not exist).
*/

int
find_and_set_default_shell (const char *token)
{
    int sh_found = 0;

```



```

char *atoken = 0;
const char *search_token;
const char *tokend;
PATH_VAR(sh_path);
extern const char *default_shell;

if (!token)
    search_token = default_shell;
else
    search_token = atoken = xstrdup (token);

/* If the user explicitly requests the DOS cmd shell, obey that request.
   However, make sure that's what they really want by requiring the value
   of SHELL either equal, or have a final path element of, "cmd" or
   "cmd.exe" case-insensitive. */
tokend = search_token + strlen (search_token) - 3;
if (((tokend == search_token
      || (tokend > search_token
          && (tokend[-1] == '/' || tokend[-1] == '\\)))
     && !strcasecmp (tokend, "cmd"))
    || ((tokend - 4 == search_token
        || (tokend - 4 > search_token
            && (tokend[-5] == '/' || tokend[-5] == '\\)))
        && !strcasecmp (tokend - 4, "cmd.exe")))
    {
        batch_mode_shell = 1;
        unixy_shell = 0;
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                          default_shell));
        sh_found = 1;
    }
else if (!no_default_sh_exe
        && (token == NULL || !strcmp (search_token, default_shell)))
    {
        /* no new information, path already set or known */
        sh_found = 1;
    }
else if (_access (search_token, 0) == 0)
    {
        /* search token path was found */
        sprintf (sh_path, "%s", search_token);
        default_shell = xstrdup (w32ify (sh_path, 0));
        DB (DB_VERBOSE, (_("find_and_set_shell() setting default_shell = %s\n"),
                          default_shell));
        sh_found = 1;
    }

```

```

}
else
{
char *p;
struct variable *v = lookup_variable (STRING_SIZE_TUPLE ("PATH"));

/* Search Path for shell */
if (v && v->value)
{
char *ep;

p = v->value;
ep = strchr (p, PATH_SEPARATOR_CHAR);

while (ep && *ep)
{
*ep = '\0';

sprintf (sh_path, "%s/%s", p, search_token);
if (_access (sh_path, 0) == 0)
{
default_shell = xstrdup (w32ify (sh_path, 0));
sh_found = 1;
*ep = PATH_SEPARATOR_CHAR;

/* terminate loop */
p += strlen (p);
}
else
{
*ep = PATH_SEPARATOR_CHAR;
p = ++ep;
}

ep = strchr (p, PATH_SEPARATOR_CHAR);
}

/* be sure to check last element of Path */
if (p
&& *p)
{
sprintf (sh_path, "%s/%s", p, search_token);
if (_access (sh_path, 0) == 0)
{
default_shell = xstrdup (w32ify (sh_path, 0));
sh_found = 1;
}
}
}

```

```

    if (sh_found)
        DB (DB_VERBOSE,
            _("find_and_set_shell() path search set default_shell = %s\n"),
            default_shell);
    }
}

/* naive test */
if (!unixy_shell && sh_found
    && (strstr (default_shell, "sh") || strstr (default_shell, "SH")))
{
    unixy_shell = 1;
    batch_mode_shell = 0;
}

#ifdef BATCH_MODE_ONLY_SHELL
    batch_mode_shell = 1;
#endif

free (atoken);

return (sh_found);
}
#endif /* WINDOWS32 */

#ifdef __MSDOS__
static void
msdos_return_to_initial_directory (void)
{
    if (directory_before_chdir)
        chdir (directory_before_chdir);
}
#endif /* __MSDOS__ */

static void
reset_jobserver
(void)
{
    jobserver_clear ();
    free (jobserver_auth);
    jobserver_auth = NULL;
}

#ifdef _AMIGA
int
main (int argc, char **argv)
#else

```

```

int
main (int argc, char **argv, char **envp)
#endif
{
    static char *stdin_nm = 0;
    int makefile_status = MAKE_SUCCESS;
    struct goaldep *read_files;
    PATH_VAR (current_directory);
    unsigned int restarts = 0;
    unsigned int syncing = 0;
    int argv_slots;
#ifdef WINDOWS32
    const char *unix_path = NULL;
    const char *windows32_path = NULL;

    SetUnhandledExceptionFilter (handle_runtime_exceptions);

    /* start off assuming we have no shell */
    unixy_shell = 0;
    no_default_sh_exe = 1;
#endif

    output_init (&make_sync);

    initialize_stopchar_map();

#ifdef SET_STACK_SIZE
    /* Get rid of any avoidable limit on stack size. */
    {
        struct rlimit rlim;

        /* Set the stack limit huge so that alloca does not fail. */
        if (getrlimit (RLIMIT_STACK, &rlim) == 0
            && rlim.rlim_cur > 0 && rlim.rlim_cur
            < rlim.rlim_max)
        {
            stack_limit = rlim;
            rlim.rlim_cur = rlim.rlim_max;
            setrlimit (RLIMIT_STACK, &rlim);
        }
        else
            stack_limit.rlim_cur = 0;
    }
#endif

    /* Needed for OS/2 */
    initialize_main (&argc, &argv);

```

```

#ifdef MAKE_MAINTAINER_MODE
/* In maintainer mode we always enable verification. */
verify_flag = 1;
#endif

#if defined (__MSDOS__) && !defined (__POSIX_SOURCE)
/* Request the most powerful version of 'system', to
   make up for the dumb default shell. */
__system_flags = (__system_redirect
                  | __system_use_shell
                  | __system_allow_multiple_cmds
                  | __system_allow_long_cmds
                  | __system_handle_null_commands
                  | __system_emulate_chdir);

#endif

/* Set up gettext/internationalization support. */
setlocale (LC_ALL, "");
/* The cast to void shuts up compiler warnings on systems that

   disable NLS. */
(void)bindtextdomain (PACKAGE, LOCALEDIR);
(void)textdomain (PACKAGE);

#ifdef POSIX
sigemptyset (&fatal_signal_set);
#define ADD_SIG(sig) sigaddset (&fatal_signal_set, sig)
#else
#ifdef HAVE_SIGSETMASK
fatal_signal_mask = 0;
#define ADD_SIG(sig) fatal_signal_mask |= sigmask (sig)
#else
#define ADD_SIG(sig) (void)sig
#endif
#endif
#endif

#define FATAL_SIG(sig) \
if (bsd_signal (sig, fatal_error_signal) == SIG_IGN) \
    bsd_signal (sig, SIG_IGN); \
else \
    ADD_SIG (sig);

#ifdef SIGHUP
FATAL_SIG (SIGHUP);
#endif
#ifdef SIGQUIT
FATAL_SIG (SIGQUIT);

```

```

#endif
FATAL_SIG (SIGINT);
FATAL_SIG (SIGTERM);

#ifdef __MSDOS__
/* Windows 9X delivers FP exceptions in child programs to their
   parent! We don't want Make to die
   when a child divides by zero,
   so we work around that lossage by catching SIGFPE. */
FATAL_SIG (SIGFPE);
#endif

#ifdef SIGDANGER
FATAL_SIG (SIGDANGER);
#endif

#ifdef SIGXCPU
FATAL_SIG (SIGXCPU);
#endif

#ifdef SIGXFSZ
FATAL_SIG (SIGXFSZ);
#endif

#undef FATAL_SIG

/* Do not ignore the child-death signal. This must be done before
   any children could possibly be created; otherwise, the wait
   functions won't work on systems with the SVR4 ECHILD brain
   damage, if our invoker is ignoring this signal. */

#ifdef HAVE_WAIT_NOHANG
# if defined SIGCHLD
(void) bsd_signal (SIGCHLD, SIG_DFL);
# endif
# if defined SIGCLD && SIGCLD != SIGCHLD
(void) bsd_signal (SIGCLD, SIG_DFL);
# endif
#endif

output_init (NULL);

/* Figure out where this program lives. */

if (argv[0] == 0)
    argv[0] = (char *)"";
if (argv[0][0] == '\0')
    program = "make";
else
    {

```

```

    program = strrchr (argv[0], '/');
#if defined(__MSDOS__)
|| defined(__EMX__)
    if (program == 0)
        program = strrchr (argv[0], '\\');
    else
    {
        /* Some weird environments might pass us argv[0] with
           both kinds of slashes; we must find the rightmost. */
        char *p = strrchr (argv[0], '\\');
        if (p && p > program)
            program = p;
    }
    if (program == 0 && argv[0][1] == ':')
        program = argv[0] + 1;
#endif
#ifdef WINDOWS32
    if (program == 0)
    {
        /* Extract program from full path */
        program = strrchr (argv[0], '\\');
        if (program)
        {
            int argv0_len = strlen (program);
            if (argv0_len > 4 && strcmp (&program[argv0_len - 4], ".exe"))
                /* Remove .exe extension */
                program[argv0_len - 4] = '\0';
        }
    }
#endif
#ifdef VMS
    set_program_name (argv[0]);
    program = program_name;
    {
        const char
*shell;
        char pwdbuf[256];
        char *pwd;
        shell = getenv ("SHELL");
        if (shell != NULL)
            vms_gnv_shell = 1;

        /* Need to know if CRTL set to report UNIX paths. Use getcwd as
           it works on all versions of VMS. */
        pwd = getcwd(pwdbuf, 256);
        if (pwd[0] == '/')
            vms_report_unix_paths = 1;
    }

```

```

vms_use_mcr_command = get_vms_env_flag ("GNV$MAKE_USE_MCR", 0);

vms_always_use_cmd_file = get_vms_env_flag ("GNV$MAKE_USE_CMD_FILE", 0);

/* Legacy behavior is on VMS is older behavior that needed to be
   changed to be compatible with standard make behavior.
   For now only completely disable when running under a Bash shell.
   TODO: Update VMS built in recipes and macros to not need this
   behavior, at which time the default may change. */
vms_legacy_behavior = get_vms_env_flag ("GNV$MAKE_OLD_VMS",

    !vms_gnv_shell);

/* VMS was changed to use a comma separator in the past, but that is
   incompatible with built in functions that expect space separated
   lists. Allow this to be selectively turned off. */
vms_comma_separator = get_vms_env_flag ("GNV$MAKE_COMMA",
    vms_legacy_behavior);

/* Some Posix shell syntax options are incompatible with VMS syntax.
   VMS requires double quotes for strings and escapes quotes
   differently. When this option is active, VMS will try
   to simulate Posix shell simulations instead of using
   VMS DCL behavior. */
vms_unix_simulation = get_vms_env_flag ("GNV$MAKE_SHELL_SIM",
    !vms_legacy_behavior);

}
if (need_vms_symbol () && !vms_use_mcr_command)
    create_foreign_command (program_name, argv[0]);
#else
if (program == 0)
    program = argv[0];
else
    ++program;
#endif
}

/* Set up to access user data (files). */
user_access ();

initialize_global_hash_tables ();

/* Figure out where we are. */

#ifdef WINDOWS32
if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else

```



```

if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
{
#ifdef HAVE_GETCWD
    perror_with_name ("getcwd", "");
#else
    OS (error, NILF, "getwd: %s", current_directory);
#endif
    current_directory[0] = '\0';
    directory_before_chdir = 0;
}
else
    directory_before_chdir = xstrdup (current_directory);

#ifdef __MSDOS__
/* Make sure we will return to the initial directory, come what may. */
atexit (msdos_return_to_initial_directory);
#endif

/* Initialize the special variables. */
define_variable_cname (".VARIABLES", "", o_default, 0)->special = 1;
/* define_variable_cname (".TARGETS", "", o_default, 0)->special = 1; */
define_variable_cname
(".RECIPEPREFIX", "", o_default, 0)->special = 1;
define_variable_cname (".SHELLFLAGS", "-c", o_default, 0);
define_variable_cname (".LOADED", "", o_default, 0);

/* Set up .FEATURES
Use a separate variable because define_variable_cname() is a macro and
some compilers (MSVC) don't like conditionals in macros. */
{
    const char *features = "target-specific order-only second-expansion"
        " else-if shortest-stem undefine oneshell"
#ifdef NO_ARCHIVES
        " archives"
#endif
#ifdef MAKE_JOBSEVER
        " jobserver"
#endif
#ifdef NO_OUTPUT_SYNC
        " output-sync"
#endif
#ifdef MAKE_SYMLINKS
        " check-symlink"
#endif
#ifdef HAVE_GUILLE
        " guile"
#endif
}
#endif

```

```

#ifdef MAKE_LOAD
    " load"
#endif

    ;

    define_variable_cname (".FEATURES", features,
o_default, 0);
}

/* Configure GNU Guile support */
guile_gmake_setup (NILF);

/* Read in variables from the environment. It is important that this be
done before $(MAKE) is figured out so its definitions will not be
from the environment. */

#ifndef _AMIGA
{
    unsigned int i;

    for (i = 0; envp[i] != 0; ++i)
    {
        struct variable *v;
        const char *ep = envp[i];
        /* By default, export all variables culled from the environment. */
        enum variable_export export = v_export;
        unsigned int len;

        while (! STOP_SET (*ep, MAP_EQUALS))
            ++ep;

        /* If there's no equals sign it's a malformed environment. Ignore. */
        if (*ep == '\0')
            continue;
    }

#ifdef WINDOWS32
    if (!unix_path && strneq (envp[i], "PATH=", 5))
        unix_path = ep+1;
    else if (!strnicmp (envp[i], "Path=", 5))
    {
        if (!windows32_path)
            windows32_path
= ep+1;
        /* PATH gets defined after the loop exits. */
        continue;
    }
#endif
}
#endif

```

```

/* Length of the variable name, and skip the '='. */
len = ep++ - envp[i];

/* If this is MAKE_RESTARTS, check to see if the "already printed
the enter statement" flag is set. */
if (len == 13 && strcmp (envp[i], "MAKE_RESTARTS", 13))
{
    if (*ep == '-')
    {
        OUTPUT_TRACED ();
        ++ep;
    }
    restarts = (unsigned int) atoi (ep);
    export = v_noexport;
}

v = define_variable (envp[i], len, ep, o_env, 1);

/* POSIX says the value of SHELL set in the makefile won't change the
value of SHELL given to subprocesses. */
if (strcmp (v->name, "SHELL"))
{
#ifdef __MSDOS__
    export = v_noexport;
#endif
    shell_var.name = xstrdup ("SHELL");
    shell_var.length = 5;
    shell_var.value = xstrdup (ep);
}

v->export = export;
}
}
#ifdef WINDOWS32
/* If we didn't find a correctly spelled PATH we define PATH as
* either the first misspelled value or an empty string
*/
if (!unix_path)
    define_variable_cname ("PATH", windows32_path ? windows32_path : "",
        o_env, 1)->export = v_export;
#endif
#else /* For Amiga, read the ENV: device, ignoring all dirs */
{
    BPTR env, file, old;
    char buffer[1024];
    int len;
    __aligned struct FileInfoBlock fib;

```

```

env = Lock ("ENV:", ACCESS_READ);
if (env)
{
    old = CurrentDir (DupLock (env));
    Examine (env, &fib);

    while (ExNext (env, &fib))
    {
        if (fib.fib_DirEntryType < 0) /* File */
        {
            /* Define an empty variable.
It will be filled in
        variable_lookup(). Makes startup quite a bit faster. */
            define_variable (fib.fib_FileName,
                strlen (fib.fib_FileName),
                "", o_env, 1)->export = v_export;
        }
    }
    UnLock (env);
    UnLock (CurrentDir (old));
}
}
#endif

/* Decode the switches. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_env, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));

#if 0
/* People write things like:
    MFLAGS="CC=gcc -pipe" "CFLAGS=-g"
and we set the -p, -i and -e switches. Doesn't seem quite right. */
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* In output sync mode we need to sync any output generated by reading the
makefiles, such as in $(info ...) or stderr from $(shell ...) etc. */

syncing = make_sync.syncout = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);
OUTPUT_SET (&make_sync);

/* Remember the job slots set through the environment vs. command line. */

```

```

{
int env_slots = arg_job_slots;
arg_job_slots = INVALID_JOB_SLOTS;

decode_switches (argc, (const char **)argv, 0);
argv_slots = arg_job_slots;

if (arg_job_slots == INVALID_JOB_SLOTS)
    arg_job_slots = env_slots;
}

/* Set a variable specifying whether stdout/stdin is hooked to a TTY. */
#ifdef HAVE_ISATTY
if (isatty (fileno (stdout)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMOUT")))
        {
            const char *tty = TTYNAME (fileno (stdout));
            define_variable_cname ("MAKE_TERMOUT", tty ? tty : DEFAULT_TTYNAME,
                o_default, 0)->export = v_export;
        }
if (isatty
(fileno (stderr)))
    if (! lookup_variable (STRING_SIZE_TUPLE ("MAKE_TERMERR")))
        {
            const char *tty = TTYNAME (fileno (stderr));
            define_variable_cname ("MAKE_TERMERR", tty ? tty : DEFAULT_TTYNAME,
                o_default, 0)->export = v_export;
        }
#endif

/* Reset in case the switches changed our minds. */
syncing = (output_sync == OUTPUT_SYNC_LINE
    || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
    output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* Figure out the level of recursion. */
{
    struct variable *v = lookup_variable (STRING_SIZE_TUPLE (MAKELEVEL_NAME));
    if (v && v->value[0] != '\0' && v->value[0] != '-')
        makelevel = (unsigned int) atoi (v->value);
    else
        makelevel = 0;
}

```

```

#ifdef WINDOWS32
if (suspend_flag)
{
    fprintf (stderr, "%s (pid = %ld)\n", argv[0], GetCurrentProcessId ());
    fprintf (stderr, _("%s is suspending for 30 seconds..."), argv[0]);
    Sleep (30 * 1000);
    fprintf (stderr, _("done sleep(30). Continuing.\n"));
}
#endif

/* Set always_make_flag if -B was given and we've not restarted already. */
always_make_flag = always_make_set && (restarts == 0);

/* Print version information, and exit. */
if (print_version_flag)
{
    print_version ();
    die (MAKE_SUCCESS);
}

if (ISDB (DB_BASIC))
    print_version ();

#ifdef VMS
/* Set the "MAKE_COMMAND" variable to the name we were invoked with.
   (If it is a relative pathname with a slash, prepend our directory name
   so the result will run the same program regardless of the current dir.
   If it is a name with no slash, we can only hope that PATH did not
   find it in the current directory.) */
#endif
#ifdef WINDOWS32
/*
 * Convert from backslashes to forward slashes for
 * programs like sh which don't like them. Shouldn't
 * matter if the path is one way or the other for
 * CreateProcess().
 */
if (strpbrk (argv[0], ":\\")) || strstr (argv[0], "..")
    || strneq (argv[0], "//", 2))
    argv[0] = xstrdup (w32ify (argv[0], 1));
#else /* WINDOWS32 */
#if defined (__MSDOS__) || defined (__EMX__)
if (strchr (argv[0], '\\'))
{
    char *p;

    argv[0] = xstrdup (argv[0]);
    for (p = argv[0]; *p; p++)

```

```

    if (*p == '\\')
        *p = '/';
}
/* If argv[0] is not in absolute form, prepend the current
   directory. This can happen when Make is invoked by another DJGPP
   program that uses a non-absolute name. */
if (current_directory[0] != '\0'
    && argv[0] != 0
    && (argv[0][0] != '/' && (argv[0][0] == '\0' || argv[0][1] != ':'))
#ifdef __EMX__
    /* do not prepend cwd if argv[0] contains no '/', e.g. "make" */
    && (strchr (argv[0], '/') != 0 || strchr (argv[0], '\\') != 0)
#endif
)
    argv[0] = xstrdup (concat
(3, current_directory, "/", argv[0]));
#else /* !__MSDOS__ */
if (current_directory[0] != '\0'
    && argv[0] != 0 && argv[0][0] != '/' && strchr (argv[0], '/') != 0
#ifdef HAVE_DOS_PATHS
    && (argv[0][0] != '\\' && (!argv[0][0] || argv[0][1] != ':'))
    && strchr (argv[0], '\\') != 0
#endif
)
    argv[0] = xstrdup (concat (3, current_directory, "/", argv[0]));
#endif /* !__MSDOS__ */
#endif /* WINDOWS32 */
#endif

/* We may move, but until we do, here we are. */
starting_directory = current_directory;

/* Set up the job_slots value and the jobserver. This can't be usefully set
   in the makefile, and we want to verify the authorization is valid before
   make has a chance to start using it for something else. */

if (jobserver_auth)
{
    if (argv_slots == INVALID_JOB_SLOTS)
    {
        if (jobserver_parse_auth (jobserver_auth))
        {
            /* Success! Use the jobserver. */
            job_slots
= 0;
            goto job_setup_complete;
        }
    }
}

```

```

    O (error, NILF, _("warning: jobserver unavailable: using -j1. Add '+' to parent make rule."));
    arg_job_slots = 1;
}

/* The user provided a -j setting on the command line: use it. */
else if (!restarts)
    /* If restarts is >0 we already printed this message. */
    O (error, NILF,
        _("warning: -jN forced in submake: disabling jobserver mode."));

/* We failed to use our parent's jobserver. */
reset_jobserver ();
job_slots = (unsigned int)arg_job_slots;
}
else if (arg_job_slots == INVALID_JOB_SLOTS)
    /* The default is one job at a time. */
    job_slots = 1;
else
    /* Use whatever was provided. */
    job_slots = (unsigned int)arg_job_slots;

job_setup_complete:

/* The extra indirection through $(MAKE_COMMAND) is done
   for hysterical raisins. */

#ifdef VMS
if (vms_use_mcr_command)

    define_variable_cname ("MAKE_COMMAND", vms_command (argv[0]), o_default, 0);
else
    define_variable_cname ("MAKE_COMMAND", program, o_default, 0);
#else
define_variable_cname ("MAKE_COMMAND", argv[0], o_default, 0);
#endif
define_variable_cname ("MAKE", "$(MAKE_COMMAND)", o_default, 1);

if (command_variables != 0)
{
    struct command_variable *cv;
    struct variable *v;
    unsigned int len = 0;
    char *value, *p;

    /* Figure out how much space will be taken up by the command-line
       variable definitions. */
    for (cv = command_variables; cv != 0; cv = cv->next)
    {

```



```

    v = cv->variable;
    len += 2 * strlen (v->name);
    if (! v->recursive)
        ++len;
    ++len;
    len += 2 * strlen (v->value);
    ++len;
}

/* Now allocate a buffer big enough and fill it. */
p = value = alloca (len);
for (cv = command_variables; cv != 0; cv = cv->next)
{
    v = cv->variable;
    p = quote_for_env (p, v->name);
    if (! v->recursive)
        *p++ = '!';
        *p++ = '=';
    p = quote_for_env (p, v->value);
    *p++ = ' ';
}
p[-1] = '\0';      /* Kill the final space and terminate. */

/* Define an unchangeable variable with a name that no POSIX.2
   makefile could validly use for its own variable. */
define_variable_cname ("*-command-variables-*-", value, o_automatic, 0);

/* Define the variable; this will not override any user definition.
   Normally a reference to this variable is written into the value of
   MAKEFLAGS, allowing the user to override this value to affect the
   exported value of MAKEFLAGS. In POSIX-pedantic mode, we cannot
   allow the user's setting of MAKEOVERRIDES to affect MAKEFLAGS, so
   a reference to this hidden variable is written instead. */
define_variable_cname
("MAKEOVERRIDES", "${*-command-variables-*-}",
    o_env, 1);
#ifdef VMS
    vms_export_dcl_symbol ("MAKEOVERRIDES", "${*-command-variables-*-}");
#endif
}

/* If there were -C flags, move ourselves about. */
if (directories != 0)
{
    unsigned int i;
    for (i = 0; directories->list[i] != 0; ++i)
    {
        const char *dir = directories->list[i];

```

```

#ifdef WINDOWS32
    /* WINDOWS32 chdir() doesn't work if the directory has a trailing '/'
       But allow -C/ just in case someone wants that. */
    {
        char *p = (char *)dir + strlen (dir) - 1;
        while (p > dir && (p[0] == '/' || p[0] == '\\'))
            --p;
        p[1] = '\0';
    }
#endif

    if (chdir (dir) < 0)
        pfatal_with_name (dir);
}

#ifdef WINDOWS32
/*
 * THIS BLOCK OF CODE MUST COME AFTER chdir() CALL ABOVE IN ORDER
 * TO NOT CONFUSE THE
DEPENDENCY CHECKING CODE IN implicit.c.
 *
 * The functions in dir.c can incorrectly cache information for "."
 * before we have changed directory and this can cause file
 * lookups to fail because the current directory (.) was pointing
 * at the wrong place when it was first evaluated.
 */
no_default_sh_exe = !find_and_set_default_shell (NULL);
#endif /* WINDOWS32 */

/* Except under -s, always do -w in sub-makes and under -C. */
if (!silent_flag && (directories != 0 || makelevel > 0))
    print_directory_flag = 1;

/* Let the user disable that with --no-print-directory. */
if (inhibit_print_directory_flag)
    print_directory_flag = 0;

/* If -R was given, set -r too (doesn't make sense otherwise!) */
if (no_builtin_variables_flag)
    no_builtin_rules_flag = 1;

/* Construct the list of include directories to search. */

construct_include_path (include_directories == 0
                       ? 0 : include_directories->list);

/* If we chdir'ed, figure out where we are now. */
if (directories)

```

```

{
#ifdef WINDOWS32
    if (getcwd_fs (current_directory, GET_PATH_MAX) == 0)
#else
    if (getcwd (current_directory, GET_PATH_MAX) == 0)
#endif
    {
#ifdef HAVE_GETCWD
        perror_with_name ("getcwd", "");
#else
        OS (error, NILF, "getwd: %s", current_directory);
#endif
        starting_directory = 0;
    }
    else
        starting_directory = current_directory;
    }

define_variable_cname ("CURDIR", current_directory, o_file, 0);

/* Read any stdin makefiles into temporary files. */

if (makefiles != 0)
{
    unsigned int i;
    for (i = 0; i < makefiles->idx; ++i)
        if (makefiles->list[i][0] == '-' && makefiles->list[i][1] == '0')
            {
                /* This makefile is standard input. Since we may re-exec
                and thus re-read the makefiles, we read standard input
                into a temporary
file and read from that. */
                FILE *outfile;
                char *template;
                const char *tmpdir;

                if (stdin_nm)
                    O (fatal, NILF,
                        _("Makefile from standard input specified twice.));

#ifdef VMS
# define DEFAULT_TMPDIR    "/sys$scratch/"
#else
# ifdef P_tmpdir
# define DEFAULT_TMPDIR    P_tmpdir
# else
# define DEFAULT_TMPDIR    "/tmp"
# endif
#endif

```

```

#endif
#define DEFAULT_TMPFILE "GmXXXXXX"

    if (((tmpdir = getenv ("TMPDIR")) == NULL || *tmpdir == '\0')
#ifdef ( __MSDOS__ ) || defined (WINDOWS32) || defined ( __EMX__ )
    /* These are also used commonly on these platforms. */
    && ((tmpdir = getenv ("TEMP")) == NULL || *tmpdir == '\0')
    && ((tmpdir = getenv ("TMP")) == NULL || *tmpdir == '\0')
#endif
    )
    tmpdir = DEFAULT_TMPDIR;

    template = alloca (strlen (tmpdir) + CSTRLEN (DEFAULT_TMPFILE) + 2);

    strcpy (template, tmpdir);

#ifdef HAVE_DOS_PATHS
    if (strchr ("\\", template[strlen (template) - 1]) == NULL)
        strcat (template, "/");
#else
# ifdef VMS
    if (template[strlen (template) - 1] != '/')
        strcat (template, "/");
# endif /* !VMS */
#endif /* !HAVE_DOS_PATHS */

    strcat (template, DEFAULT_TMPFILE);
    outfile = output_tmpfile (&stdin_nm, template);
    if (outfile == 0)
        pfatal_with_name (_("fopen (temporary file)"));
    while (!feof (stdin) && ! ferror (stdin))
    {
        char buf[2048];
        unsigned int n = fread (buf, 1, sizeof (buf), stdin);
        if (n > 0 && fwrite (buf, 1, n, outfile) != n)
            pfatal_with_name (_("fwrite (temporary file)"));
    }
    fclose (outfile);

    /* Replace the name that read_all_makefiles will
    see with the name of
the temporary file. */
    makefiles->list[i] = strcache_add (stdin_nm);

    /* Make sure the temporary file will not be remade. */
    {
        struct file *f = enter_file (strcache_add (stdin_nm));
        f->updated = 1;
    }

```

```

    f->update_status = us_success;
    f->command_state = cs_finished;
    /* Can't be intermediate, or it'll be removed too early for
       make re-exec. */
    f->intermediate = 0;
    f->dontcare = 0;
    }
}
}

```

```

#ifndef __EMX__ /* Don't use a SIGCHLD handler for OS/2 */
#if !defined(HAVE_WAIT_NOHANG) || defined(MAKE_JOBSEVER)
/* Set up to handle children dying. This must be done before
   reading in the makefiles so that 'shell' function calls will work.

```

If we don't have a hanging wait we have to fall back to old, broken functionality here and rely on the signal handler and counting children.

If we're using the jobs pipe we need a signal handler so that SIGCHLD is not ignored; we need it to interrupt the read(2) of the jobserver pipe if we're waiting for a token.

```

    If none of these are true, we don't need a signal handler at all. */
    {
    # if defined SIGCHLD
        bsd_signal (SIGCHLD, child_handler);
    # endif
    # if defined SIGCLD && SIGCLD != SIGCHLD
        bsd_signal (SIGCLD, child_handler);
    # endif
    }

```

```

#ifdef HAVE_PSELECT
/* If we have pselect() then we need to block SIGCHLD so it's deferred. */
{
    sigset_t block;
    sigemptyset (&block);
    sigaddset (&block, SIGCHLD);
    if (sigprocmask (SIG_SETMASK, &block, NULL) < 0)
        pfatal_with_name ("sigprocmask(SIG_SETMASK, SIGCHLD)");
}
#endif

#endif

#endif

```

```

/* Let the user send us SIGUSR1 to toggle the -d flag during the run. */

```

```

#ifdef SIGUSR1
    bsd_signal (SIGUSR1, debug_signal_handler);
#endif

/* Define the initial list of suffixes for old-style rules. */
set_default_suffixes ();

/* Define the file rules for the built-in suffix rules. These will later
   be converted into pattern rules. We used to do this in
   install_default_implicit_rules, but since that happens after reading
   makefiles, it results in the built-in pattern rules taking precedence
   over makefile-specified suffix rules, which is wrong. */
install_default_suffix_rules ();

/* Define some internal and special variables. */
define_automatic_variables ();

/* Set up the MAKEFLAGS and MFLAGS variables for makefiles to see.
   Initialize it to be exported but allow the makefile to reset it. */
define_makeflags (0, 0)->export = v_export;

/* Define the default variables. */
define_default_variables ();

default_file = enter_file (strcache_add (".DEFAULT"));

default_goal_var = define_variable_cname (".DEFAULT_GOAL", "", o_file, 0);

/* Evaluate all strings provided with --eval.
   Also set up the $(-*-eval-flags-*)
   variable. */

if (eval_strings)
{
    char *p, *value;
    unsigned int i;
    unsigned int len = (CSTRLEN ("--eval=") + 1) * eval_strings->idx;

    for (i = 0; i < eval_strings->idx; ++i)
    {
        p = xstrdup (eval_strings->list[i]);
        len += 2 * strlen (p);
        eval_buffer (p, NULL);
        free (p);
    }

    p = value = alloca (len);
    for (i = 0; i < eval_strings->idx; ++i)

```

```

    {
        strcpy (p, "--eval=");
        p += CSTRLEN ("--eval=");
        p = quote_for_env (p, eval_strings->list[i]);
        *(p++) = ' ';
    }
    p[-1] = '\0';

    define_variable_cname ("-*-eval-flags-*-", value, o_automatic, 0);
}

/* Read all the makefiles. */

read_files = read_all_makefiles (makefiles == 0 ? 0 : makefiles->list);

#ifdef WINDOWS32
/* look one last time after reading all Makefiles */
if (no_default_sh_exe)
    no_default_sh_exe = !find_and_set_default_shell
(NULL);
#endif /* WINDOWS32 */

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
/* We need to know what kind of shell we will be using. */
{
    extern int _is_unixy_shell (const char *_path);
    struct variable *shv = lookup_variable (STRING_SIZE_TUPLE ("SHELL"));
    extern int unixy_shell;
    extern const char *default_shell;

    if (shv && *shv->value)
    {
        {
            char *shell_path = recursively_expand (shv);

            if (shell_path && _is_unixy_shell (shell_path))
                unixy_shell = 1;
            else
                unixy_shell = 0;
            if (shell_path)
                default_shell = shell_path;
        }
    }
}
#endif /* __MSDOS__ || __EMX__ */

{
    int old_builtin_rules_flag = no_builtin_rules_flag;
    int old_builtin_variables_flag = no_builtin_variables_flag;

```

```

/* Decode switches again, for variables set by the makefile. */
decode_env_switches (STRING_SIZE_TUPLE ("GNUMAKEFLAGS"));

/* Clear GNUMAKEFLAGS
to avoid duplication. */
define_variable_cname ("GNUMAKEFLAGS", "", o_override, 0);

decode_env_switches (STRING_SIZE_TUPLE ("MAKEFLAGS"));
#if 0
decode_env_switches (STRING_SIZE_TUPLE ("MFLAGS"));
#endif

/* Reset in case the switches changed our mind. */
syncing = (output_sync == OUTPUT_SYNC_LINE
           || output_sync == OUTPUT_SYNC_TARGET);

if (make_sync.syncout && ! syncing)
output_close (&make_sync);

make_sync.syncout = syncing;
OUTPUT_SET (&make_sync);

/* If we've disabled builtin rules, get rid of them. */
if (no_builtin_rules_flag && ! old_builtin_rules_flag)
{
if (suffix_file->builtin)
{
free_dep_chain (suffix_file->deps);
suffix_file->deps = 0;
}
define_variable_cname ("SUFFIXES", "", o_default, 0);
}

/* If we've disabled builtin variables, get rid of them. */
if (no_builtin_variables_flag && ! old_builtin_variables_flag)
undefine_default_variables ();
}

#if defined (__MSDOS__) || defined (__EMX__) || defined (VMS)
if (arg_job_slots != 1
# ifdef __EMX__
&& _osmode != OS2_MODE /* turn off -j if we are in DOS mode */
# endif
)
{
O (error, NILF,
_ ("Parallel jobs (-j) are not supported on this platform."));
O (error, NILF, _ ("Resetting to single job (-j1) mode."));
}

```



```

    arg_job_slots = job_slots = 1;
}
#endif

/* If we have >1 slot at this point, then we're a top-level make.
   Set up the jobserver.

   Every make assumes that it always has one job it can run. For the
   submakes it's the token they were given by their parent. For the top
   make, we just subtract one from the number the user wants. */

if (job_slots > 1 && jobserver_setup (job_slots - 1))
{
    /* Fill in the jobserver_auth for our children. */
    jobserver_auth = jobserver_get_auth ();

    if (jobserver_auth)
    {
        /* We're using the jobserver so set job_slots to 0. */
        master_job_slots = job_slots;
        job_slots = 0;
    }
}

/* If we're not using parallel jobs, then we don't need output sync.
   This is so people can enable output sync in GNUMAKEFLAGS or similar, but
   not have it take effect unless parallel builds are enabled. */
if (syncing && job_slots == 1)
{
    OUTPUT_UNSET ();
    output_close (&make_sync);
    syncing = 0;
    output_sync = OUTPUT_SYNC_NONE;
}

#ifndef MAKE_SYMLINKS
if (check_symlink_flag)
{
    O (error, NILF, _("Symbolic links not supported: disabling -L."));
    check_symlink_flag = 0;
}
#endif

/* Set up MAKEFLAGS and MFLAGS again, so they will be right. */

define_makeflags (1, 0);

/* Make each 'struct goaldep' point at the 'struct file' for the file

```

```

    depended on. Also do magic for special targets. */

snap_deps ();

/* Convert old-style
suffix rules to pattern rules. It is important to
do this before installing the built-in pattern rules below, so that
makefile-specified suffix rules take precedence over built-in pattern
rules. */

convert_to_pattern ();

/* Install the default implicit pattern rules.
This used to be done before reading the makefiles.
But in that case, built-in pattern rules were in the chain
before user-defined ones, so they matched first. */

install_default_implicit_rules ();

/* Compute implicit rule limits. */

count_implicit_rule_limits ();

/* Construct the listings of directories in VPATH lists. */

build_vpath_lists ();

/* Mark files given with -o flags as very old and as having been updated
already, and files given with -W flags as brand new (time-stamp as far
as possible into the future). If restarts is set we'll do -W later. */

if (old_files != 0)
{
    const char **p;
    for (p
= old_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = OLD_MTIME;
        f->updated = 1;
        f->update_status = us_success;
        f->command_state = cs_finished;
    }
}

if (!restarts && new_files != 0)
{
    const char **p;

```

```

for (p = new_files->list; *p != 0; ++p)
{
    struct file *f = enter_file (*p);
    f->last_mtime = f->mtime_before_update = NEW_MTIME;
}
}

/* Initialize the remote job module. */
remote_setup ();

/* Dump any output we've collected. */

OUTPUT_UNSET ();
output_close (&make_sync);

if (read_files != 0)
{
    /* Update any makefiles if necessary. */

    FILE_TIMESTAMP *makefile_mtimes = 0;
    unsigned int mm_idx = 0;
    char **aargv = NULL;
    const char **nargv;
    int nargc;
    enum update_status status;

    DB (DB_BASIC, (_("Updating
makefiles....\n")));

    /* Remove any makefiles we don't want to try to update.
    Also record the current modtimes so we can compare them later. */
    {
        register struct goaldep *d, *last;
        last = 0;
        d = read_files;
        while (d != 0)
        {
            struct file *f = d->file;
            if (f->double_colon)
                for (f = f->double_colon; f != NULL; f = f->prev)
                {
                    if (f->deps == 0 && f->cmds != 0)
                    {
                        /* This makefile is a :: target with commands, but
                        no dependencies. So, it will always be remade.
                        This might well cause an infinite loop, so don't
                        try to remake it. (This will only happen if
                        your makefiles are written exceptionally

```

stupidly; but if you work for Athena, that's how
you write
your makefiles.) */

```
DB (DB_VERBOSE,
    _("Makefile '%s' might loop; not remaking it.\n"),
    f->name));

if (last == 0)
    read_files = d->next;
else
    last->next = d->next;

/* Free the storage. */
free_goaldep (d);

d = last == 0 ? read_files : last->next;

break;
}
}

if (f == NULL || !f->double_colon)
{
    makefile_mtimes = xrealloc (makefile_mtimes,
        (mm_idx+1)
        * sizeof (FILE_TIMESTAMP));
    makefile_mtimes[mm_idx++] = file_mtime_no_search (d->file);
    last = d;
    d = d->next;
}
}
}

/* Set up 'MAKEFLAGS' specially while remaking makefiles. */
define_makeflags (1, 1);

{
    int orig_db_level = db_level;

    if (!ISDB (DB_MAKEFILES))
        db_level = DB_NONE;

    rebuilding_makefiles = 1;
    status = update_goal_chain (read_files);
    rebuilding_makefiles = 0;

    db_level = orig_db_level;
```

```

}

switch (status)
{
case us_question:
    /* The only way this can happen is if the user specified -q and asked
       for one of the makefiles to be remade as a target on the command
       line. Since we're not actually updating anything with -q we can
       treat this as "did nothing". */

case us_none:
    /* Did nothing. */
    break;

case us_failed:
    /* Failed to update. Figure out if we care. */
    {
        /* Nonzero if any makefile was successfully remade. */

int any_remade = 0;
    /* Nonzero if any makefile we care about failed
       in updating or could not be found at all. */
int any_failed = 0;
unsigned int i;
struct goaldep *d;

for (i = 0, d = read_files; d != 0; ++i, d = d->next)
    {
        if (d->file->updated)
            {
                /* This makefile was updated. */
                if (d->file->update_status == us_success)
                    {
                        /* It was successfully updated. */
                        any_remade |= (file_mtime_no_search (d->file)
                                       != makefile_mtimes[i]);
                    }
                else if (!(d->flags & RM_DONTCARE))
                    {
                        FILE_TIMESTAMP mtime;
                        /* The update failed and this makefile was not
                           from the MAKEFILES variable,
so we care. */
                        OS (error, NILF, _("Failed to remake makefile '%s'."),
                           d->file->name);
                        mtime = file_mtime_no_search (d->file);
                        any_remade |= (mtime != NONEXISTENT_MTIME
                                       && mtime != makefile_mtimes[i]);
                    }
            }
    }
}

```

```

        makefile_status = MAKE_FAILURE;
    }
}
else
/* This makefile was not found at all. */
if (!(d->flags & RM_DONTCARE))
{
    const char *dnm = dep_name (d);
    size_t l = strlen (dnm);

    /* This is a makefile we care about. See how much. */
    if (d->flags & RM_INCLUDED)
        /* An included makefile. We don't need to die, but we
        do want to complain. */

error (NILF, l,
        _("Included makefile '%s' was not found."), dnm);
    else
    {
        /* A normal makefile. We must die later. */
        error (NILF, l,
            _("Makefile '%s' was not found"), dnm);
        any_failed = 1;
    }
}
}
/* Reset this to empty so we get the right error message below. */
read_files = 0;

if (any_remade)
    goto re_exec;
if (any_failed)
    die (MAKE_FAILURE);
break;
}

case us_success:
re_exec:
/* Updated successfully. Re-exec ourselves. */

remove_intermediates (0);

if (print_data_base_flag)
    print_data_base ();

clean_jobserver (0);

if (makefiles

```

```

!= 0)
{
    /* These names might have changed. */
    int i, j = 0;
    for (i = 1; i < argc; ++i)
        if (strneq (argv[i], "-f", 2)) /* XXX */
            {
                if (argv[i][2] == '\0')
                    /* This cast is OK since we never modify argv. */
                    argv[++i] = (char *) makefiles->list[j];
                else
                    argv[i] = xstrdup (concat (2, "-f", makefiles->list[j]));
                ++j;
            }
    }

    /* Add -o option for the stdin temporary file, if necessary. */
    nargc = argc;
    if (stdin_nm)
        {
            void *m = xmalloc ((nargc + 2) * sizeof (char *));
            aargv = m;
            memcpy (aargv, argv, argc * sizeof (char *));
            aargv[nargc++] = xstrdup (concat (2, "-o", stdin_nm));
            aargv[nargc] = 0;
            nargv
= m;
        }
    else
        nargv = (const char**)argv;

    if (directories != 0 && directories->idx > 0)
        {
            int bad = 1;
            if (directory_before_chdir != 0)
                {
                    if (chdir (directory_before_chdir) < 0)
                        perror_with_name ("chdir", "");
                    else
                        bad = 0;
                }
            if (bad)
                O (fatal, NILF,
                    _("Couldn't change back to original directory."));
        }

    ++restarts;

```

```

if (ISDB (DB_BASIC))
{
    const char **p;
    printf (_("Re-executing[%u]:"), restarts);
    for (p = nargs; *p != 0; ++p)
        printf (" %s", *p);
    putchar ('\n');
    fflush (stdout);
}

#ifdef _AMIGA
{
    char **p;
    for (p = environ; *p != 0; ++p)
    {
        if (strneq (*p, MAKELEVEL_NAME "=", MAKELEVEL_LENGTH+1))
        {
            *p = alloca (40);
            sprintf (*p, "%s=%u", MAKELEVEL_NAME, makelevel);
#ifdef VMS
            vms_putenv_symbol (*p);
#endif
        }
    }
    else if (strneq (*p, "MAKE_RESTARTS=", CSTRLEN ("MAKE_RESTARTS=")))
    {
        *p = alloca (40);
        sprintf (*p, "MAKE_RESTARTS=%s%u",
            OUTPUT_IS_TRACED () ? "-" : "", restarts);
        restarts = 0;
    }
}
#else /* AMIGA */
{
    char buffer[256];

    sprintf (buffer, "%u", makelevel);
    SetVar (MAKELEVEL_NAME, buffer, -1, GVF_GLOBAL_ONLY);

    sprintf (buffer, "%s%u", OUTPUT_IS_TRACED () ? "-" : "", restarts);
    SetVar ("MAKE_RESTARTS", buffer, -1, GVF_GLOBAL_ONLY);
    restarts = 0;
}
#endif

/* If we didn't set the restarts variable yet, add it. */
if (restarts)
{

```



```

    char *b = alloca (40);
    sprintf (b, "MAKE_RESTARTS=%s%u",
            OUTPUT_IS_TRACED () ? "-" : "", restarts);
    putenv (b);
}

fflush (stdout);
fflush (stderr);

#ifdef _AMIGA
    exec_command (nargv);
    exit (0);
#elif defined (__EMX__)
    {
        /* It is not possible to use execve() here because this
           would cause the parent process to be terminated with
           exit code 0 before the child process has been terminated.
           Therefore it may be the best solution simply to spawn the
           child process including all file handles and to wait for its
           termination. */
        int pid;
        int r;
        pid = child_execute_job (NULL,
1, nargv, environ);

        /* is this loop really necessary? */
        do {
            pid = wait (&r);
        } while (pid <= 0);
        /* use the exit code of the child process */
        exit (WIFEXITED(r) ? WEXITSTATUS(r) : EXIT_FAILURE);
    }
#else
#ifdef SET_STACK_SIZE
    /* Reset limits, if necessary. */
    if (stack_limit.rlim_cur)
        setrlimit (RLIMIT_STACK, &stack_limit);
#endif
    exec_command ((char **)nargv, environ);
#endif
    free (argv);
    break;
}

/* Free the makefile mtimes. */
free (makefile_mtimes);
}

```

```

/* Set up 'MAKEFLAGS' again for the normal targets. */
define_makeflags (1, 0);

/* Set always_make_flag if -B was given. */
always_make_flag = always_make_set;

/* If restarts is set we haven't set up -W files yet, so do that now. */
if (restarts && new_files != 0)
{
    const char **p;
    for (p
= new_files->list; *p != 0; ++p)
    {
        struct file *f = enter_file (*p);
        f->last_mtime = f->mtime_before_update = NEW_MTIME;
    }
}

/* If there is a temp file from reading a makefile from stdin, get rid of
it now. */
if (stdin_nm && unlink (stdin_nm) < 0 && errno != ENOENT)
    perror_with_name (_("unlink (temporary file): "), stdin_nm);

/* If there were no command-line goals, use the default. */
if (goals == 0)
{
    char *p;

    if (default_goal_var->recursive)
        p = variable_expand (default_goal_var->value);
    else
    {
        p = variable_buffer_output (variable_buffer, default_goal_var->value,
                                strlen (default_goal_var->value));
        *p = '\0';
        p = variable_buffer;
    }

    if (*p != '\0')
    {
        struct file *f = lookup_file (p);

        /* If .DEFAULT_GOAL is a non-existent target, enter it into the
table and let the standard logic sort it out. */
        if (f == 0)
        {
            struct nameseq *ns;

```

```

ns = PARSE_SIMPLE_SEQ (&p, struct nameseq);
if (ns)
{
    /* .DEFAULT_GOAL should contain one target. */
    if (ns->next != 0)
        O (fatal, NILF,
            _(".DEFAULT_GOAL contains more than one target"));

    f = enter_file (strcache_add (ns->name));

    ns->name = 0; /* It was reused by enter_file(). */
    free_ns_chain (ns);
}

if (f)
{
    goals = alloc_goaldep ();
    goals->file = f;
}
}
else
    lastgoal->next = 0;

if (!goals)
{
    if (read_files == 0)
        O (fatal, NILF, _("No targets specified and no makefile found"));

    O (fatal, NILF, _("No targets"));
}

/* Update the goals. */

DB (DB_BASIC, (_("Updating goal targets...\n")));

{
    switch (update_goal_chain (goals))
    {
        case us_none:
            /* Nothing happened. */
            /* FALLTHROUGH */
        case us_success:
            /* Keep the previous result. */
            break;
        case us_question:

```

```

    /* We are under -q and would run some commands. */
    makefile_status = MAKE_TROUBLE;
    break;
case us_failed:
    /* Updating failed. POSIX.2 specifies exit status >1 for this; */
    makefile_status = MAKE_FAILURE;
    break;
}

/* If we detected some clock skew, generate one last warning */
if (clock_skew_detected)
    O (error, NILF,
      _("warning: Clock skew detected. Your build may be incomplete.));

/* Exit. */
die (makefile_status);
}

/* NOTREACHED */
exit (MAKE_SUCCESS);
}

/* Parsing of arguments, decoding of switches. */

static char
options[1 + sizeof (switches) / sizeof (switches[0]) * 3];
static struct option long_options[(sizeof (switches) / sizeof (switches[0])) +
                                  (sizeof (long_option_aliases) /
                                   sizeof (long_option_aliases[0]))];

/* Fill in the string and vector for getopt. */
static void
init_switches (void)
{
    char *p;
    unsigned int c;
    unsigned int i;

    if (options[0] != '\0')
        /* Already done. */
        return;

    p = options;

    /* Return switch and non-switch args in order, regardless of
       POSIXLY_CORRECT. Non-switch args are returned as option 1. */
    *p++ = '-';

```

```

for (i = 0; switches[i].c != '\0'; ++i)
{
    long_options[i].name = (switches[i].long_name == 0 ? "" :
        switches[i].long_name);
    long_options[i].flag = 0;
    long_options[i].val = switches[i].c;
    if (short_option (switches[i].c))
        *p++ = switches[i].c;
    switch (switches[i].type)
    {
        case flag:
        case flag_off:
        case ignore:
            long_options[i].has_arg = no_argument;
            break;

        case string:
        case strlist:
        case filename:
        case positive_int:
        case floating:
            if (short_option (switches[i].c))
                *p++ = ':';
            if (switches[i].noarg_value != 0)
            {
                if (short_option (switches[i].c))
                    *p++ = ':';
                long_options[i].has_arg = optional_argument;
            }
            else
                long_options[i].has_arg = required_argument;
            break;
    }
}
*p = '\0';
for (c = 0; c < (sizeof (long_option_aliases) /
    sizeof (long_option_aliases[0]));
    ++c)
    long_options[i++] = long_option_aliases[c];
long_options[i].name = 0;
}

```

```

/* Non-option argument. It might be a variable definition. */
static void
handle_non_switch_argument (const
char *arg, int env)
{

```

```

struct variable *v;

if (arg[0] == '-' && arg[1] == '\0')
    /* Ignore plain '-' for compatibility. */
    return;

#ifdef VMS
{
    /* VMS DCL quoting can result in foo="bar baz" showing up here.
       Need to remove the double quotes from the value. */
    char * eq_ptr;
    char * new_arg;
    eq_ptr = strchr (arg, '=');
    if ((eq_ptr != NULL) && (eq_ptr[1] == ""))
    {
        int len;
        int seg1;
        int seg2;
        len = strlen(arg);
        new_arg = alloca(len);
        seg1 = eq_ptr - arg + 1;
        strncpy(new_arg, arg, (seg1));
        seg2 = len - seg1 - 1;
        strncpy(&new_arg[seg1], &eq_ptr[2], seg2);
        new_arg[seg1 + seg2] = 0;
        if (new_arg[seg1 + seg2 - 1] == "")
            new_arg[seg1 + seg2 - 1] = 0;
        arg = new_arg;
    }
}
#endif
v = try_variable_definition (0, arg, o_command, 0);
if (v != 0)
{
    /* It is indeed a variable definition.
       If we don't already have this
       one, record a pointer to the variable for later use in
       define_makeflags. */
    struct command_variable *cv;

    for (cv = command_variables; cv != 0; cv = cv->next)
        if (cv->variable == v)
            break;

    if (! cv)
    {
        cv = xmalloc (sizeof (*cv));
        cv->variable = v;
    }
}

```

```

    cv->next = command_variables;
    command_variables = cv;
}
}
else if (! env)
{
/* Not an option or variable definition; it must be a goal
target! Enter it as a file and add it to the dep chain of
goals. */
struct file *f = enter_file (strcache_add (expand_command_line_file (arg)));
f->cmd_target = 1;

if (goals == 0)
{
goals = alloc_goaldep ();
lastgoal = goals;
}
else
{
lastgoal->next = alloc_goaldep ();
lastgoal = lastgoal->next;
}

lastgoal->file = f;

{
/* Add this target name to the MAKECMDGOALS variable. */
struct variable *gv;
const char *value;

gv = lookup_variable (STRING_SIZE_TUPLE ("MAKECMDGOALS"));
if (gv == 0)
value = f->name;
else
{
/* Paste the old and new values together */
unsigned int oldlen, newlen;
char *vp;

oldlen = strlen (gv->value);
newlen = strlen (f->name);
vp = alloca (oldlen + 1 + newlen + 1);
memcpy (vp, gv->value, oldlen);
vp[oldlen] = ' ';
memcpy (&vp[oldlen + 1], f->name, newlen + 1);
value = vp;
}
define_variable_cname ("MAKECMDGOALS", value, o_default, 0);

```

```

    }
  }
}

/* Print a nice usage method. */

static void
print_usage (int bad)
{
  const char *const *cpp;
  FILE *usageto;

  if (print_version_flag)
    print_version
    ();

  usageto = bad ? stderr : stdout;

  fprintf (usageto, _("Usage: %s [options] [target] ...\n"), program);

  for (cpp = usage; *cpp; ++cpp)
    fputs (_(*cpp), usageto);

  if (!remote_description || *remote_description == '\0')
    fprintf (usageto, _("\nThis program built for %s\n"), make_host);
  else
    fprintf (usageto, _("\nThis program built for %s (%s)\n"),
            make_host, remote_description);

  fprintf (usageto, _("Report bugs to <bug-make@gnu.org>\n"));
}

/* Decode switches from ARGV and ARGV.
   They came from the environment if ENV is nonzero. */

static void
decode_switches (int argc, const char **argv, int env)
{
  int bad = 0;
  register const struct command_switch *cs;
  register struct stringlist *sl;
  register int c;

  /* getopt does most of the parsing for us.
     First, get its vectors set up. */

  init_switches ();

```



```

/* Let getopt produce error messages for the command line,
   but not for options from
the environment. */
opterr = !env;
/* Reset getopt's state. */
optind = 0;

while (optind < argc)
{
    const char *coptarg;

    /* Parse the next argument. */
    c = getopt_long (argc, (char*const*)argv, options, long_options, NULL);
    coptarg = optarg;
    if (c == EOF)
        /* End of arguments, or "--" marker seen. */
        break;
    else if (c == 1)
        /* An argument not starting with a dash. */
        handle_non_switch_argument (coptarg, env);
    else if (c == '?')
        /* Bad option. We will print a usage message and die later.
           But continue to parse the other options so the user can
           see all he did wrong. */
        bad = 1;
    else
        for (cs = switches; cs->c != '\0'; ++cs)
            if (cs->c == c)
                {
                    /* Whether or not we will actually do anything with
                       this switch. We test this individually inside the
                       switch
below rather than just once outside it, so that
           options which are to be ignored still consume args. */
                    int doit = !env || cs->env;

                    switch (cs->type)
                    {
                        default:
                            abort ();

                        case ignore:
                            break;

                        case flag:
                        case flag_off:
                            if (doit)
                                *(int *) cs->value_ptr = cs->type == flag;
                    }
                }
}

```

```

break;

case string:
case strlist:
case filename:
if (!doit)
    break;

if (!coptarg)
    coptarg = xstrdup (cs->noarg_value);
else if (*coptarg == '\0')
{
    char opt[2] = "c";
    const char *op = opt;

    if (short_option (cs->c)
        opt[0]
= cs->c;
    else
        op = cs->long_name;

    error (NILF, strlen (op),
        _("the '%s%s' option requires a non-empty string argument"),
        short_option (cs->c) ? "-" : "--", op);
    bad = 1;
    break;
}

if (cs->type == string)
{
    char **val = (char **)cs->value_ptr;
    free (*val);
    *val = xstrdup (coptarg);
    break;
}

sl = *(struct stringlist **) cs->value_ptr;
if (sl == 0)
{
    sl = xmalloc (sizeof (struct stringlist));
    sl->max = 5;
    sl->idx = 0;
    sl->list = xmalloc (5 * sizeof (char *));
    *(struct
stringlist **) cs->value_ptr = sl;
}
else if (sl->idx == sl->max - 1)
{

```

```

sl->max += 5;
/* MSVC erroneously warns without a cast here. */
sl->list = xrealloc ((void *)sl->list,
                    sl->max * sizeof (char *));
}
if (cs->type == filename)
    sl->list[sl->idx++] = expand_command_line_file (coptarg);
else
    sl->list[sl->idx++] = xstrdup (coptarg);
sl->list[sl->idx] = 0;
break;

case positive_int:
/* See if we have an option argument; if we do require that
   it's all digits, not something like "10foo". */
if (coptarg == 0 && argc > optind)
{
    const char *cp;

for (cp=argv[optind]; ISDIGIT (cp[0]); ++cp)
    ;
    if (cp[0] == '\0')
        coptarg = argv[optind++];
}

if (!doit)
    break;

if (coptarg)
{
    int i = atoi (coptarg);
    const char *cp;

/* Yes, I realize we're repeating this in some cases. */
for (cp = coptarg; ISDIGIT (cp[0]); ++cp)
    ;

if (i < 1 || cp[0] != '\0')
{
    error (NILF, 0,
          _("the '-%c' option requires a positive integer argument"),
          cs->c);
    bad = 1;
}
else
    *(unsigned int *) cs->value_ptr = i;

```

```

    }
    else
        *(unsigned int *) cs->value_ptr
        = *(unsigned int *) cs->noarg_value;
    break;

#ifdef NO_FLOAT
    case floating:
        if (coptarg == 0 && optind < argc
            && (ISDIGIT (argv[optind][0]) || argv[optind][0] == '.'))
            coptarg = argv[optind++];

        if (doit)
            *(double *) cs->value_ptr
            = (coptarg != 0 ? atof (coptarg)
              : *(double *) cs->noarg_value);

        break;
#endif
}

/* We've found the switch. Stop looking. */
break;
}
}

/* There are no more options according to getting getopt, but there may
   be some arguments left. Since we have asked for non-option arguments
   to be returned in order, this only happens when there is a "--"
   argument to prevent
   later arguments from being options. */
while (optind < argc)
    handle_non_switch_argument (argv[optind++], env);

if (!env && (bad || print_usage_flag))
{
    print_usage (bad);
    die (bad ? MAKE_FAILURE : MAKE_SUCCESS);
}

/* If there are any options that need to be decoded do it now. */
decode_debug_flags ();
decode_output_sync_flags ();
}

/* Decode switches from environment variable ENVAR (which is LEN chars long).
   We do this by chopping the value into a vector of words, prepending a
   dash to the first word if it lacks one, and passing the vector to

```

```

decode_switches. */

static void
decode_env_switches (const char *envar, unsigned int len)
{
    char *varref = alloca (2 + len + 2);
    char *value, *p, *buf;
    int argc;
    const char **argv;

    /* Get the variable's value. */
    varref[0] = '$';
    varref[1] = '(';
    memcpy (&varref[2], envar, len);
    varref[2 + len] = ')';
    varref[2 + len + 1] = '\0';
    value =
    variable_expand (varref);

    /* Skip whitespace, and check for an empty value. */
    NEXT_TOKEN (value);
    len = strlen (value);
    if (len == 0)
        return;

    /* Allocate a vector that is definitely big enough. */
    argv = alloca ((1 + len + 1) * sizeof (char *));

    /* getopt will look at the arguments starting at ARGV[1].
       Prepend a spacer word. */
    argv[0] = 0;
    argc = 1;

    /* We need a buffer to copy the value into while we split it into words
       and unquote it. Set up in case we need to prepend a dash later. */
    buf = alloca (1 + len + 1);
    buf[0] = '-';
    p = buf+1;
    argv[argc] = p;
    while (*value != '\0')
    {
        if (*value == '\\' && value[1] != '\0')
            ++value;          /* Skip the backslash. */
        else if (ISBLANK (*value))
        {
            /* End of the word. */
            *p++ = '\0';
            argv[++argc] = p;

```

```

do
    ++value;
while (ISBLANK (*value));
continue;
}
*p++ = *value++;
}
*p = '\0';
argv[++argc] = 0;
assert (p < buf + len + 2);

if (argv[1][0] != '-' && strchr (argv[1], '=') == 0)
    /* The first word doesn't start with a dash and isn't a variable
    definition, so add a dash. */
    argv[1] = buf;

/* Parse those words. */
decode_switches (argc, argv, 1);
}

/* Quote the string IN so that it will be interpreted as a single word with
no magic by decode_env_switches; also double dollar signs to avoid
variable expansion in make itself. Write the result into OUT, returning
the address of the next character to be written.
Allocating space for OUT twice the length of IN is always sufficient. */

static char *
quote_for_env (char *out, const char *in)
{
while (*in != '\0')
{
if (*in == '$')
*out++ = '$';
else if (ISBLANK (*in) || *in == '\\')
*out++ = '\\';
*out++ = *in++;
}
}

return out;
}

/* Define the
MAKEFLAGS and MFLAGS variables to reflect the settings of the
command switches. Include options with args if ALL is nonzero.
Don't include options with the 'no_makefile' flag set if MAKEFILE. */

static struct variable *
define_makeflags (int all, int makefile)

```

```

{
const char ref[] = "$(MAKEOVERRIDES)";
const char posixref[] = "$(-*-command-variables-*-)";
const char evalref[] = "$(-*-eval-flags-*-)";
const struct command_switch *cs;
char *flagstring;
char *p;

/* We will construct a linked list of 'struct flag's describing
   all the flags which need to go in MAKEFLAGS. Then, once we
   know how many there are and their lengths, we can put them all
   together in a string. */

struct flag
{
    struct flag *next;
    const struct command_switch *cs;
    const char *arg;
};
struct flag *flags = 0;
struct flag *last = 0;
unsigned int flagslen = 0;
#define ADD_FLAG(ARG, LEN) \
do {
    \
    struct flag *new = alloca (sizeof (struct flag)); \
    new->cs = cs; \
    new->arg = (ARG); \
    new->next = 0; \
    if (! flags) \
        flags = new; \
    else \
        last->next = new; \
    last = new; \
    if (new->arg == 0) \
        /* Just a single flag letter: "-x" */ \
        flagslen += 3; \
    \
    else \
        /* "-xfoo", plus space to escape "foo". */ \
        flagslen += 1 + 1 + 1 + (3 * (LEN)); \
    if (!short_option (cs->c)) \
        /* This switch has no single-letter version, so we use the long. */ \
        flagslen += 2 + strlen (cs->long_name); \
} while (0)

for (cs = switches; cs->c != '\0'; ++cs)
    if (cs->toenv && (!makefile || !cs->no_makefile))

```

```

switch (cs->type)
{
case ignore:
    break;

case flag:
case flag_off:
    if ((!(int *) cs->value_ptr) == (cs->type == flag_off)
        && (cs->default_value == 0
            || *(int *) cs->value_ptr != *(int *) cs->default_value))
        ADD_FLAG (0, 0);
    break;

case positive_int:
    if (all)
    {
        if ((cs->default_value != 0
            && *(unsigned int *) cs->value_ptr
                == *(unsigned int *) cs->default_value))
            break;
        else if (cs->noarg_value != 0
            && *(unsigned int *) cs->value_ptr ==
                *(unsigned int *) cs->noarg_value)
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
        else
        {
            char *buf = alloca (30);
            sprintf (buf, "%u", *(unsigned int *) cs->value_ptr);
            ADD_FLAG (buf, strlen (buf));
        }
    }
    break;

```

```

#ifdef NO_FLOAT

```

```

case floating:
    if (all)
    {
        if (cs->default_value != 0
            && *(double *) cs->value_ptr
                == *(double *) cs->default_value)
            break;

        else if (cs->noarg_value != 0
            && *(double *) cs->value_ptr
                == *(double *) cs->noarg_value)
            ADD_FLAG ("", 0); /* Optional value omitted; see below. */
        else
        {

```



```

        char *buf = alloca (100);
        sprintf (buf, "%g", *(double *) cs->value_ptr);
        ADD_FLAG (buf, strlen (buf));
    }
}
break;
#endif

case string:
    if (all)
    {
        p = *((char **)cs->value_ptr);
        if (p)
            ADD_FLAG (p, strlen (p));
    }
    break;

case filename:
case strlist:
    if (all)
    {
        struct stringlist *sl = *(struct stringlist **) cs->value_ptr;
        if (sl != 0)
        {
            unsigned int i;
            for (i = 0; i < sl->idx; ++i)

                ADD_FLAG (sl->list[i], strlen (sl->list[i]));
        }
    }
    break;

default:
    abort ();
}

#undef ADD_FLAG

/* Four more for the possible "--", plus variable references. */
flagslen += 4 + CSTRLEN (posixref) + 1 + CSTRLEN (evalref) + 1;

/* Construct the value in FLAGSTRING.
   We allocate enough space for a preceding dash and trailing null. */
flagstring = alloca (1 + flagslen + 1);
memset (flagstring, '\0', 1 + flagslen + 1);
p = flagstring;

/* Start with a dash, for MFLAGS. */

```

```

*p++ = '-';

/* Add simple options as a group. */
while (flags != 0 && !flags->arg && short_option (flags->cs->c))
{
    *p++ = flags->cs->c;
    flags = flags->next;
}

/* Now add more complex flags: ones with options and/or long names. */
while (flags)
{
    *p++ = ' ';
    *p++ = '-';

    /* Add the flag letter or name to the string. */
    if (short_option
(flags->cs->c))
        *p++ = flags->cs->c;
    else
    {
        /* Long options require a double-dash. */
        *p++ = '-';
        strcpy (p, flags->cs->long_name);
        p += strlen (p);
    }
    /* An omitted optional argument has an ARG of "". */
    if (flags->arg && flags->arg[0] != '\0')
    {
        if (!short_option (flags->cs->c))
            /* Long options require '='. */
            *p++ = '=';
        p = quote_for_env (p, flags->arg);
    }
    flags = flags->next;
}

/* If no flags at all, get rid of the initial dash. */
if (p == &flagstring[1])
{
    flagstring[0] = '\0';
    p = flagstring;
}

/* Define MFLAGS before appending variable definitions. Omit an initial
empty dash. Since MFLAGS is not parsed for flags, there is no reason to
override any makefile redefinition. */
define_variable_cname ("MFLAGS",

```

```

        flagstring + (flagstring[0]
== '-' && flagstring[1] == '?' ? 2 : 0),
        o_env, 1);

/* Write a reference to -*eval-flags-*, which contains all the --eval
   flag options. */
if (eval_strings)
{
    *p++ = ' ';
    memcpy (p, evalref, CSTRLEN (evalref));
    p += CSTRLEN (evalref);
}

if (all && command_variables)
{
    /* Write a reference to $(MAKEOVERRIDES), which contains all the
       command-line variable definitions. Separate the variables from the
       switches with a "--" arg. */

    strcpy (p, "-- ");
    p += 4;

    /* Copy in the string. */
    if (posix_pedantic)
    {
        memcpy (p, posixref, CSTRLEN (posixref));
        p += CSTRLEN (posixref);
    }
    else
    {
        memcpy (p, ref, CSTRLEN (ref));
        p += CSTRLEN (ref);
    }
}

/* If there is a leading dash, omit it. */
if (flagstring[0] == '-')
    ++flagstring;

/* This used
to use o_env, but that lost when a makefile defined MAKEFLAGS.
Makefiles set MAKEFLAGS to add switches, but we still want to redefine
its value with the full set of switches. Then we used o_file, but that
lost when users added -e, causing a previous MAKEFLAGS env. var. to take
precedence over the new one. Of course, an override or command
definition will still take precedence. */
return define_variable_cname ("MAKEFLAGS", flagstring,
                             env_overrides ? o_env_override : o_file, 1);

```

```

}

/* Print version information. */

static void
print_version (void)
{
    static int printed_version = 0;

    const char *precede = print_data_base_flag ? "# " : "";

    if (printed_version)
        /* Do it only once. */
        return;

    printf ("%sGNU Make %s\n", precede, version_string);

    if (!remote_description || *remote_description == '\0')
        printf (_("%sBuilt for %s\n"), precede, make_host);
    else
        printf (_("%sBuilt
for %s (%s)\n"),
            precede, make_host, remote_description);

    /* Print this untranslated. The coding standards recommend translating the
(C) to the copyright symbol, but this string is going to change every
year, and none of the rest of it should be translated (including the
word "Copyright"), so it hardly seems worth it. */

    printf ("%sCopyright (C) 1988-2016 Free Software Foundation, Inc.\n",
        precede);

    printf (_("%sLicense GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>\n\
%sThis is free software: you are free to change and redistribute it.\n\
%sThere is NO WARRANTY, to the extent permitted by law.\n"),
        precede, precede, precede);

    printed_version = 1;

    /* Flush stdout so the user doesn't have to wait to see the
version information while make thinks about things. */
    fflush (stdout);
}

/* Print a bunch of information about this and that. */

static void
print_data_base

```

```

(void)
{
time_t when = time ((time_t *) 0);

print_version ();

printf (_("\n# Make data base, printed on %s"), ctime (&when));

print_variable_data_base ();
print_dir_data_base ();
print_rule_data_base ();
print_file_data_base ();
print_vpath_data_base ();
strcache_print_stats ("#");

when = time ((time_t *) 0);
printf (_("\n# Finished Make data base on %s\n"), ctime (&when));
}

static void
clean_jobserver (int status)
{
/* Sanity: have we written all our jobserver tokens back? If our
   exit status is 2 that means some kind of syntax error; we might not
   have written all our tokens so do that now. If tokens are left
   after any other error code, that's bad. */

if (jobserver_enabled() && jobserver_tokens)
{
if (status != 2)
ON (error, NILF,
    "INTERNAL: Exiting with %u jobserver tokens (should be 0)!",
    jobserver_tokens);
else
/* Don't write back the "free"
token */
while (--jobserver_tokens)
jobserver_release (0);
}

/* Sanity: If we're the master, were all the tokens written back? */

if (master_job_slots)
{
/* We didn't write one for ourself, so start at 1. */
unsigned int tokens = 1 + jobserver_acquire_all ();

```

```

if (tokens != master_job_slots)
    ONN (error, NILF,
        "INTERNAL: Exiting with %u jobserver tokens available; should be %u!",
        tokens, master_job_slots);

reset_jobserver ();
}
}

/* Exit with STATUS, cleaning up as necessary. */

void
die (int status)
{
    static char dying = 0;

    if (!dying)
    {
        int err;

        dying = 1;

        if (print_version_flag)
            print_version ();

        /* Wait for children to die. */
        err = (status != 0);
        while (job_slots_used > 0)
            reap_children (1, err);

        /* Let the remote job module clean up its state. */
        remote_cleanup
    ();

        /* Remove the intermediate files. */
        remove_intermediates (0);

        if (print_data_base_flag)
            print_data_base ();

        if (verify_flag)
            verify_file_data_base ();

        clean_jobserver (status);

        if (output_context)
        {
            /* die() might be called in a recipe output context due to an

```

```

    $(error ...) function. */
output_close (output_context);

if (output_context != &make_sync)
    output_close (&make_sync);

OUTPUT_UNSET ();
}

output_close (NULL);

/* Try to move back to the original directory. This is essential on
MS-DOS (where there is really only one process), and on Unix it
puts core files in the original directory instead of the -C
directory. Must wait until after remove_intermediates(), or unlinks
of relative pathnames fail. */
if (directory_before_chdir != 0)
{
    /* If it fails we don't care: shut up GCC. */
    int _x UNUSED;
    _x = chdir (directory_before_chdir);
}
}

exit (status);
}

```

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1.77 net-tools 1.60-26 r0

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*/
#include "config.h"

#if HAVE_AFNETROM || HAVE_HWNETROM
#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <net/if_arp.h>
#if (__GLIBC__ > 2) || (__GLIBC__ == 2 && __GLIBC_MINOR__ >= 1)
#include <netax25/ax25.h>
#else
#include <linux/ax25.h>
#endif
#include <stdlib.h>
```

```

#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <string.h>
#include <termios.h>
#include <unistd.h>
#include "net-support.h"
#include "pathnames.h"
#include "intl.h"
#include "util.h"

static char netrom_errmsg[128];

extern struct aftype netrom_aftype;

static char *NETROM_print(unsigned char *ptr)
{
    static char buff[8];
    int i;

    for (i = 0; i < 6; i++) {
        buff[i] = ((ptr[i] & 0377) >> 1);
        if (buff[i] == ' ')
            buff[i] = '\0';
    }
    buff[6] = '\0';
    i = ((ptr[6] & 0x1E) >> 1);
    if (i != 0)
        sprintf(&buff[strlen(buff)], "-%d", i);
    return (buff);
}

/* Display an AX.25 socket address. */
static char *NETROM_sprint(struct sockaddr *sap, int numeric)
{
    char buf[64];
    if (sap->sa_family == 0xFFFF || sap->sa_family == 0)
        return safe_strncpy(buf, _("[NONE SET]"), sizeof(buf));
    return (NETROM_print(((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call));
}

static int NETROM_input(int type, char *bufp, struct sockaddr *sap)
{
    unsigned char *ptr;
    char *orig, c;

```

```

unsigned int i;

sap->sa_family = netrom_aftype.af;
ptr = ((struct sockaddr_ax25 *) sap)->sax25_call.ax25_call;

/* First, scan and convert the basic callsign. */
orig = bufp;
i = 0;
while ((*bufp != '\0') && (*bufp
!= '-') && (i < 6)) {
c = *bufp++;
if (islower(c))
c = toupper(c);
if (!(isupper(c) || isdigit(c))) {
safe_strncpy(netrom_errmsg, _("Invalid callsign"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = EINVAL;
return (-1);
}
*ptr++ = (unsigned char) ((c << 1) & 0xFE);
i++;
}

/* Callsign too long? */
if ((i == 6) && (*bufp != '-') && (*bufp != '\0')) {
safe_strncpy(netrom_errmsg, _("Callsign too long"), sizeof(netrom_errmsg));
#ifdef DEBUG
fprintf(stderr, "netrom_input(%s): %s !\n", netrom_errmsg, orig);
#endif
errno = E2BIG;
return (-1);
}
/* Nope, fill out the address bytes with blanks. */
while (i++ < sizeof(ax25_address) - 1) {
*ptr++ = (unsigned char) ((' ' << 1) & 0xFE);
}

/* See if we need to add an SSID field. */
if (*bufp == '-') {
i = atoi(++bufp);
*ptr = (unsigned char) ((i << 1) & 0xFE);
}
else {
*ptr = (unsigned char) '\0';
}

```



```

    /* All done. */
#ifdef DEBUG
    fprintf(stderr, "netrom_input(%s): ", orig);
    for (i = 0; i < sizeof(ax25_address); i++)
        fprintf(stderr, "%02X ", sap->sa_data[i] & 0377);
    fprintf(stderr, "\n");
#endif

    return (0);
}

/* Display an error message. */
static void NETROM_herror(char *text)
{
    if (text == NULL)
        fprintf(stderr, "%s\n", netrom_errmsg);
    else
        fprintf(stderr, "%s: %s\n", text, netrom_errmsg);
}

static int NETROM_hinput(char *bufp, struct sockaddr *sap)
{
    if (NETROM_input(0, bufp, sap) < 0)
        return (-1);
    sap->sa_family = ARPHRD_NETROM;
    return (0);
}

#if 0
/* Set the line discipline of a terminal line. */
static int KISS_set_disc(int fd, int disc)
{
    if (ioctl(fd, TIOCSETD, &disc) < 0) {
        fprintf(stderr, "KISS_set_disc(%d): %s\n", disc, strerror(errno));
        return (-errno);
    }
    return (0);
}

/* Start the KISS encapsulation on the file descriptor.
*/
static int KISS_init(int fd)
{
    if (KISS_set_disc(fd, N_SLIP) < 0)
        return (-1);
}

```

```

    if (ioctl(fd, SIOCSIFENCAP, 4) < 0)
return (-1);
    return (0);
}
#endif

struct hwtype netrom_hwtype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ ARPHRD_NETROM, 7,
    NETROM_print, NETROM_hinput, NULL, 0
};

struct aftype netrom_aftype =
{
    "netrom", NULL, /* "AMPR NET/ROM", */ AF_NETROM, 7,
    NETROM_print, NETROM_sprint, NETROM_input, NETROM_herror,
    NULL, NULL, NULL,
    -1,
    "/proc/net/nr"
};

#endif /* HAVE_AFNETROM */
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```

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1.82 pps-tools 1.0.2 r0

1.83 procps 3.3.15 r0

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1.84 rsync 3.1.3 r0

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```

The hypothetical commands

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```

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1.91 semodule-utils 2.8 r0

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1.92 setools 4.1.1 r0

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.96 update-rc-d 0.8 r0

1.97 which 2.21 r3

1.97.1 Available under license :

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```
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```
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```

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StartChar: copyright

Encoding: 169 169 102

GlifName: copyright

Width: 862

Flags: HMW

LayerCount: 2

Back

SplineSet

441 156 m 0

335 156 273 218 273 327 c 0

273 382 287 427 315 462 c 0

344 498 390 515 452 515 c 0

480 515 510 508 541 494 c 1

526 452 1 1

499 462 473 466 450 466 c 0

371 466 330 420 330 339 c 0

330 253 372 203 458 203 c 0

478 203 499 207 522 215 c 1

537 175 1 1

504 162 472 156 441 156 c 0

430 609 m 0

347 609 276 572 231 529 c 0

186 485 148 416 148 333 c 0

148 251 186 181 231 138 c 0

276 94 347 58 430 58 c 0

513 58 583 95 628 138 c 0

673 181 711 251 711 333 c 0

711 416 673 485 628 529 c 0

583 573 513 609 430 609 c 0

428 674 m 0

530 674 618 630 673 576 c 0

729 522 776 436 776 333 c 0

776 231 730 146 674 92 c 0

618 38 532 -7 430 -7 c 0

327 -7 242 38 186 92 c 0

130 146 83 230 83 333 c 0

83 435 129 521 185 575 c 0

240 629 327 674 428 674 c 0

EndSplineSet
Fore
SplineSet
70 344 m 3
70 561 215 706 432 706 c 3
648 706 792 560 792 344 c 3
792 134 645 -10 432
-10 c 3
216 -10 70 131 70 344 c 3
156 348 m 3
156 183 264 76 432 76 c 3
602 76 709 182 709 348 c 3
709 514 597 624 432 624 c 3
266 624 156 514 156 348 c 3
337 347 m 3
337 274 376 228 450 228 c 3
493 228 515 238 552 252 c 1
580 189 1 1
539 165 497 152 432 152 c 3
314 152 241 229 241 347 c 3
241 468 313 544 432 544 c 3
499 544 534 530 580 508 c 1
552 446 1 1
544 449 546 448 528 453 c 0
506 461 479 470 450 470 c 3
374 470 337 423 337 347 c 3

EndSplineSet

Validated: 1

EndChar

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#
# Please keep the list sorted.
# (first name; alphabetical order)
```

Dave Crossland <dave@understandinglimited.com>

Erik Hartenian <infinality@infinality.net>

Jakub Steiner <jimmac@gmail.com>

Nikolaus Waxweiler <madigens@gmail.com>

Pooja Saxena <anexasajoop@gmail.com>

Valek Filippov <frob@gnome.org>

StartChar: copyright
Encoding: 169 169 102
GlifName: copyright
Width: 869
Flags: HMW
LayerCount: 2
Back
SplineSet
548 524 m 2
564 517 1 1
537 439 1 1
518 446 1 1
495 454 473 458 449 458 c 0
371 458 351 408 351 353 c 0
351 294 372 238 455 238 c 0
475 238 495 242 515 249 c 2
533 255 1 1
561 179 1 1
543 172 1 2
509 159 474 152 437 152 c 0
355 152 255 195 255 343 c 0
255 496 355 547 442 547 c 0
479 547 515 539 548 524 c 2
430 602 m 0
284 602 171 484 171 347 c 0
171 210 284 93 430 93 c 0
576 93 688 210 688 347 c 0
688 484 576 602 430 602 c 0
792 347 m 3
792 155 634 -10 430 -10 c 3
226 -10 67 154 67 347 c 3
67 536 223 706 430 706 c 3
634 706 792 539 792 347 c 3
EndSplineSet
Fore
SplineSet
784 334 m 259
784 129 638 -10 432 -10 c 3
229 -10 85 130 85 334 c 259
85 537 228 678 432 678 c 3
638 678 784 540 784 334 c 259
719 334 m 259
719 498 600 614 436 614 c 3
270 614 151 499 151 334 c 259
151 170 271 57 436 57 c 3
599 57 719 171 719 334 c 259
281 329 m 3
281 454 339

517 456 517 c 3
486 517 517 511 550 497 c 1
531 443 1 1
506 451 482 456 458 456 c 3
385 456 349 418 349 341 c 3
349 260 384 216 466 216 c 3
484 216 504 221 527 229 c 1
546 175 1 1
513 161 480 155 448 155 c 3
342 155 281 222 281 329 c 3
EndSplineSet
Validated: 1
EndChar

1.101 berkeley-db 5.3.28 r1

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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

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* `admin/check-style.sh`,
`admin/check-style-common.awk`,
`admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project.

They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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```

```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
```

```
<xsl:text> </xsl:text>
<xsl:value-of select="holder"/>
  <xsl:value-of select="$isc.copyright.breakline"/>
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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1.103 json-c 0.13.1 r0

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1.104 selinux 2.8 r0

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1.105 Isof 4.91 r0

1.106 ntp 4.2.8p13 r0

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```
/* -*- Mode: Text -*- */
```

```
copyright = {  
  date = "1992-2017";  
  owner = "The University of Delaware and Network Time Foundation";  
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
  type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;  
version-proc = ntpOptionPrintVersion;
```

```
version = `  
eval VERSION=\`sed -e 's/.*,\\[/]' -e 's/\\[.*/]' < ../sntp/m4/version.m4\  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = ""; /* Don't use -v as a shortcut for --version */
```

```
/*
```

```
* HMS: man pages already have this, and texi pages can use the  
* values in sntp/include/version.texi .
```

```
*/
```

```
// doc-sub = {  
//   sub-name = version;  
//   sub-text = 's/#VERSION#/<<version>>/g';  
// };
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
  UTC</p>
<br clear="left">
</p>
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<p>The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.</p>

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- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael,barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete

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Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)

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Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt>

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Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port

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A Mostafa <kamal@whence.com> SCO OpenServer port

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Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone <ken@sdd.hp.com> HP-UX port

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Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

<hr>
</body>
</html>

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1.107 python-enum 1.1.6 r0

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1.108 python-funcsigns 1.0.2 r0

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1.109 python-ipaddress 1.0.22 r0

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1.110 python-ipy 0.83 r0

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1.111 python-iso8601 0.1.12 r0

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1.112 python-ply 3.11 r0

1.113 python-pretend 1.0.9 r0

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1.114 python-pyserial 3.4 r0

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1.115 python-uwsgi 2.0.18 r0

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1.118 tipccconfig 2.0.6 r0

1.119 unzip 6.0 r5

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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding in an apparatus that performs LZW encoding, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is

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- * MoreFiles
- *
- * A collection of File Manager and related routines
- *
- * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- * with significant code contributions by Nitin Ganatra
- * (Apple Macintosh Developer Technical Support Emeritus)
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- * MacBinaryIII.h
- *
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- * Basic encoding and decoding of Macintosh files to the
- * MacBinary III spec.
- * -----

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.120 util-macros 1.19.2 r0

1.120.1 Available under license :

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1.121 cunit 2.1-3 r0

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1.122 curl 7.66.0 r0

1.122.1 Available under license :

License Mixing

=====

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1.123 libmbim 1.18.0 r0

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

That's all there is to it!

1.124 python3-pycrypto 2.6.1 r0

1.124.1 Available under license :

00INDEX - This file
tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications
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.

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 from	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	no
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

Footnotes:

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From dlitz@dlitz.net Sun Aug 2 21:48:25 2009
Date: Sun, 2 Aug 2009 21:48:25 -0400
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090803014825.GA1326@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2631

Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

```
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```

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard.

Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, Barry Warsaw, Wim Lewis, Jeethu Rao, Joris Bontje, and Mark Moraes, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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=====

Regards,
- Dwayne

--

Dwayne C. Litzengerger <dlitz@dlitz.net>

Key-signing

key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug 3 12:14:07 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <paulswartz@gmail.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 12:14:07 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068

for <dwon@rivest.dlitz.net>; Mon, 3 Aug 2009 10:14:06 -0600 (CST)

Received: (vmmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159

Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])

by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066

for <dlitz@dlitz.net>; Mon, 3 Aug 2009 10:14:05 -0600 (CST)

Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3

for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;

d=gmail.com; s=gamma;

h=domainkey-signature:mime-version:received:in-reply-to:references

:from:date:message-id:subject:to:content-type

:content-transfer-encoding;

bh=A0RHBf0TnribKS5qOHJ3WYbkZ+b0cuPeuoKAvpApWcc=;

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d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:from:date:message-id:subject:to

:content-type:content-transfer-encoding;

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1ornJLM1eQ2XyuZA73jem+SJfdHUcSD1UhgI=

MIME-Version: 1.0

Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.1249316043185; Mon,

03 Aug 2009 09:14:03 -0700 (PDT)

In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>

References: <20090803014825.GA1326@rivest.dlitz.net>

From: Paul Swartz <paulswartz@gmail.com>

Date: Mon, 3 Aug 2009 12:13:43 -0400

Message-ID: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenger" <dlitz@dlitz.net>

Content-Type: text/plain; charset=UTF-8

Content-Transfer-Encoding: quoted-printable

Status: RO

X-Status: A

Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:
te:

> Hi Paul,

>

> I am the new

maintainer of the Python Cryptography Toolkit, and I am

> working on a new release at <http://www.pycrypto.org/>.

That's great!

> I understand that you have made contributions to PyCrypto, under nickname

> "z3p" and/or other names. =C2=A0May I, on your behalf, dedicate to the pu= blic

> domain all your contributions to PyCrypto, with the following notice?

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 1250

On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:

>On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenger<dlitz@dlitz.net> wrote:

>> Hi Paul,

>>

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>

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>

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>

>Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--

Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Sat Apr 18 09:14:20 2009

Date: Sat, 18 Apr 2009 09:14:20 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Mark Moraes <moraes@computer.org>

Subject: PyCrypto license clarification

Message-ID: <20090418131419.GA14494@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2635

Hi Mark,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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(www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in *Intellectual Property and Open Source: A Practical Guide to Protecting Code*, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they have all approved the following dedication for their contributions.

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=====

Regards,
- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <markmoraes@yahoo.com>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id DE41F4025F

for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (vmmailmgr-postfix 7604 invoked by uid 1003); 20 Apr 2009 17:25:36 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (yahoo.com: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="markmoraes@yahoo.com"; helo=web32405.mail.mud.yahoo.com; client-ip=68.142.207.198

Received: from web32405.mail.mud.yahoo.com (web32405.mail.mud.yahoo.com

[68.142.207.198])

by goedel.dlitz.net (Postfix) with SMTP id B5EAF401EE

for <dlitz@dlitz.net>; Mon, 20 Apr 2009 17:25:36 -0600 (CST)

Received: (qmail 34697 invoked by uid 60001); 20 Apr 2009 23:25:33 -0000

DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=yahoo.com; s=s1024; t=1240269933;

bh=OvxqbYnCG7R6tUN3YmlgFURM3CuHh1JeHyXhDzkaThU=; h=Message-ID:X-YMail-OSG:Received:X-

Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

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2aU=

DomainKey-Signature:a=rsa-sha1; q=dns; c=noFWS;

s=s1024; d=yahoo.com;

h=Message-ID:X-YMail-OSG:Received:X-Mailer:Date:From:Reply-To:Subject:To:MIME-Version:Content-Type;

b=r6RShFF5VzQLg+9tcn1xKuo4Rs4IVvXF6fdqOpQrMyRCxeFoebhuTE35grGqlomOJLwM0+mZwRb6rGkDj7
63caOAlo8Ect/qlADW5izXfmVQaDchTbTqmpsJBmQnTQs9iZ+InrG+3UIwtUSGfX7fhEWmI9P/HBzxf9Wp4b3j
eo=;

Message-ID:

<551071.34569.qm@web32405.mail.mud.yahoo.com>

X-YMail-OSG:

FrK8aWMVM1mFJtLpMGbUbCLjbUQC.iJKIAKUHsFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY
4vZSnfTT8wnCkzZnZ_g6k.XUc3ipo_6e.92TXI4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWVJYVYtp50clsUFS
Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghxw--

Received: from [69.124.140.74] by web32405.mail.mud.yahoo.com via HTTP; Mon, 20 Apr 2009 16:25:32 PDT

X-Mailer: YahooMailClassic/5.2.15 YahooMailWebService/0.7.289.1
Date: Mon, 20 Apr 2009 16:25:32 -0700 (PDT)
From: M Moraes <markmoraes@yahoo.com>
Reply-To: moraes@computer.org
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Status: RO
X-Status: A
Content-Length: 3222

Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
>
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at <http://www.pycrypto.org/>.
>
> People often ask me what license PyCrypto is covered by, if
> it's
> GPL-compatible, etc. Right now, I'm not really sure
> what to tell them.
> The text in the current LICENSE file (quoted below) is not
> entirely clear
> on the point of whether distributing modified versions is
> allowed. (It
> says "distribute and use", but not "modify".)
>
>
> =====
> Distribute and use freely; there are
> no restrictions on further
> dissemination and usage except those

>
> imposed by the laws of your
> country of residence. This
> software is provided "as is" without
> warranty of fitness for use or
> suitability for any purpose, express
> or implied. Use at your own risk or
> not at all.
>
> =====
>
> Incorporating the code into commercial
> products is permitted; you do
> not have to make source available or
> contribute your changes back
> (though that would be nice).
>
> --amk
>
>
> (www.amk.ca)
>
> For the next PyCrypto release, I would like to take steps
> to move toward a
> clearer licensing regime. I am asking as many
> copyright holders as I can
> find if I can release PyCrypto under something clearer and
> more standard.
> Below, I have quoted a public domain dedication that was
> recommended in
> Intellectual Property and Open Source: A Practical Guide
> to Protecting
> Code_,
> by Van Lindberg. I have already contacted A.
> M. Kuchling, Robey
> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
> have all
> approved the following dedication for their contributions.
>
> I understand that you have made contributions to
> PyCrypto. May I, on your
> behalf, dedicate to the public domain all your
> contributions to PyCrypto,
> with the following notice?
>
>
> =====
> The contents of this file are

> dedicated to the public domain. To the
> extent that dedication to the public
> domain is not available, everyone
> is granted a worldwide, perpetual,
> royalty-free, non-exclusive license
> to exercise all rights associated with
> the contents of this file for
> any purpose whatsoever. No
> rights are reserved.

>

> =====

>

> Regards,

> - Dwayne

>

> -- Dwayne C. Litzenger <dlitz@dlitz.net>

>

Key-signing key - 19E1

> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

>

From dlitz@dlitz.net Mon Apr 20 20:01:37 2009

Date: Mon, 20 Apr 2009 20:01:37 -0400

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: moraes@computer.org

Subject: Re: PyCrypto license clarification

Message-ID: <20090421000137.GA29012@rivest.dlitz.net>

References: <551071.34569.qm@web32405.mail.mud.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

In-Reply-To: <551071.34569.qm@web32405.mail.mud.yahoo.com>

X-Primary-Address: dlitz@dlitz.net

X-Homepage: <http://www.dlitz.net/>

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);

preference=unprotected

X-OpenPGP: url=<http://www.dlitz.net/go/gpgkey/>;

id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);

preference=signencrypt

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 3677

Thanks a lot, and don't

worry about not responding to previous emails. I

do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

>

>Hi Dwayne.

>

>Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.

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>Mark.

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>> Date: Saturday, April 18, 2009, 9:14 AM

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>> what to tell them.

>> The text in the current LICENSE file (quoted below) is not

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>> on the point of whether distributing

modified versions is

>> allowed. (It

>> says "distribute and use", but not "modify".)

>>

>>

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>> Distribute and use freely; there are

>> no restrictions on further

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>> imposed by the laws of your

>> country of residence. This

>> software is provided "as is" without

>> warranty of fitness for use or

>> suitability for any purpose, express

>> or implied. Use at your own risk or

>> not at all.

>>

>> =====

>>
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>> (though that would be nice).
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>>
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>> (www.amk.ca)
>>
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>> Code_, by Van Lindberg. I have already contacted A.
>> M. Kuchling, Robey
>> Pointer, Wim Lewis, Jeethu Rao, and Barry Warsaw, and they
>> have all
>> approved the following dedication for their contributions.
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>> to exercise all rights associated with
>> the contents of this file for
>> any purpose whatsoever. No
>> rights are reserved.

>>
>> =====
>>
>> Regards,
>> - Dwayne
>>
>> -- Dwayne C. Litzenberger <dlitz@dlitz.net>
>> Key-signing key - 19E1
>> 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>>
>

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45
From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dlitz@dlitz.net>; Wed, 27 Aug 2008 18:45:04 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk
[193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS
15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
enc@nsa.gov,
web_site@bis.doc.gov,
pycrypto@lists.dlitz.net,
PYTHON-CRYPTO@NIC.SURFNET.NL,
dlitz@dlitz.net
Received-SPF: Pass (m14.stamper.itconsult.co.uk: domain of dlitz@dlitz.net
designates 64.5.53.201 as permitted sender) identity=mailfrom;
client-ip=64.5.53.201; receiver=m14.stamper.itconsult.co.uk;
helo=goedel.dlitz.net; mechanism=-all; envelope-from=dlitz@dlitz.net;
Received: from goedel.dlitz.net (goedel.dlitz.net [64.5.53.201]) by

m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with ESMTP id
taxsjqaa for post@stamper.itconsult.co.uk; Thu, 28 Aug 2008 01:42:58 +0100
Received: from rivest.dlitz.net (rivest.dlitz.net [IPv6:2002:4c0a:9133:1104::1])
by goedel.dlitz.net (Postfix) with ESMTP id 667C7100B1
for <post@stamper.itconsult.co.uk>;
Wed, 27 Aug 2008 18:42:56 -0600 (CST)
Received: by rivest.dlitz.net (Postfix, from userid 1000)
id B92F8C66420; Wed, 27 Aug 2008 20:42:55 -0400 (EDT)
Received: by rivest.dlitz.net (tmدا-sendmail, from uid 1000);
Wed, 27 Aug 2008 20:42:54 -0400
Date: Wed, 27 Aug 2008 20:42:54 -0400
Cc: post@stamper.itconsult.co.uk
Subject: PyCrypto TSU NOTIFICATION
Message-ID: <20080828004254.GA31214@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);
preference=unprotected
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/;
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);
preference=signencrypt
User-Agent: Mutt/1.5.16 (2007-06-11)
X-Delivery-Agent: TMDA/1.1.9 (Jura)
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>
X-DNSBL: 0
Status: O
Content-Length:
2182
Lines: 65

-----BEGIN PGP SIGNED MESSAGE-----

#####

#

This is a proof of posting certificate from
stamper.itconsult.co.uk certifying that a user
claiming to be:-
dlitz@dlitz.net
requested that this message be sent to:-
crypt@bis.doc.gov
enc@nsa.gov
web_site@bis.doc.gov
pycrypto@lists.dlitz.net
PYTHON-CRYPTO@NIC.SURFNET.NL

dlitz@dlitz.net

This certificate was issued at 00:45 (GMT)
on Thursday 28 August 2008 with reference 0520978

CAUTION: while the message may well be from the sender
indicated in the "From:" header, the sender
has NOT been authenticated by this service

For information about the Stamper service see
<http://www.itconsult.co.uk/stamper.htm>

#####

SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C.
Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: <http://www.pycrypto.org/>

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----

Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978

iQEVAgUBSLX1DYGVnbVwth+BAQEcuwf9EWnXLqSO5bPzR9K9QnTPcsKbTljKjPxr
d+q0E7eE8VtnvviUcTAR9o27yvzOPxdFT864MQA7OTSbPK39aGAgA4fgAgvYH9t
UNjJ/kv8QLz/aa2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpjgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o

XYhY+HbRjsD741/GSpOt9IIN5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSIPkwmhbhPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=3oIX

-----END

PGP SIGNATURE-----

Date: Sun, 23 Nov 2008 15:54:35 -0800

From: Wim Lewis <wiml@hxxx.org>

Subject: Re: PyCrypto license clarification

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Cc: Wim Lewis <wiml@hxxx.org>

Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hxxx.org>

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On November 23, 2008, you wrote:

>Hi Wim,

>

>I am the new maintainer of the Python Cryptography Toolkit, and I am

>working on a new release at <http://www.pycrypto.org/>.

>

>I understand that you have made contributions to PyCrypto. May I, on

>your behalf, dedicate to the public domain all your contributions to

>PyCrypto, with the following notice?

>

> =====

> The contents of this file are dedicated to the public domain. To the
> extent that dedication to the public domain is not available, everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive license
> to exercise all rights associated with the contents
of this file for

> any purpose whatsoever. No rights are reserved.

> =====

Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128
implementation, which already has a public-domain notice at the top of
the file. But I am happy to have that, any any other code of mine that
might have wandered in there under an unclear open sourcish license,
distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnA18UnN8n93LBAQLp/gQAhr7x8Av1mstc2kxEJDWTm26PTAZxMz4B

FektbDOzkxgc5580MGGeeX/MVn8aw+1BHg0YD85gsntlDzkcQtb+BR/xAvJ5zKyA

J/Mn/I+I6ekJQ3juh8IPHLAduOXM9Rtguas/yR+Doaq0xOPKobx+/5+t1LJtBcZ

wrPEa9Oui9s=

=zSY9

-----END PGP SIGNATURE-----

PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

In an effort to further clarify PyCrypto's licensing terms, anyone submitting code to PyCrypto must be able to certify the following (taken from the Linux kernel's SubmittingPatches file):

Developer's Certificate of Origin 1.1

By making a contribution to this project, I certify that:

- (a) The contribution was created in whole or in part by me and I have the right to submit it under the open source license indicated in the file; or
- (b) The contribution is based upon previous work that, to the best of my knowledge, is covered under an appropriate open source license and I have the right under that license to submit that work with modifications, whether created in whole or in part by me, under the same open source license (unless I am permitted to submit under a different license), as indicated in the file; or
- (c) The contribution was provided directly to me by some other person who certified (a), (b) or (c) and I have not modified it.
- (d) I understand and agree that this project and the contribution are public and that a record of the contribution (including all personal information I submit with it, including my sign-off) is maintained indefinitely and may be redistributed consistent with this project or the open source license(s) involved.

In addition, the code's author must not be a national, citizen, or resident of the United States of America.

In addition, the code must not be of U.S. origin.

In addition, all new code contributed to PyCrypto must be dedicated to the public domain as follows:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a

Content-Description:

Digital signature

Content-Disposition: inline

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.5 (GNU/Linux)

iEYEARECAAYFAkko52IACgkQHDBG4d+eAS0XPPQCfcyQ2DdAXKg9N7Z+jeSFFD5EZ
yloAn33a3ZjkteyJaTbzEqImOEW8JGpf
=aBEW

-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--

From amk@amk.ca Sun Nov 23 07:51:59 2008

X-Maildir-Dup-Checked: Yes

Return-Path: <amk@amk.ca>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 5C2C75047D

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 07:51:59 -0500 (EST)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id D632D10111

for <dwon@rivest.dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (vmailmgr-postfix 12026 invoked by uid 1003); 23 Nov 2008 06:51:58 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (goedel.dlitz.net: domain of amk@amk.ca does
not designate permitted sender hosts)

Received: from mail5.sea5.speakeasy.net (mail5.sea5.speakeasy.net [69.17.117.7])

by goedel.dlitz.net (Postfix) with ESMTP id 97DC710105

for <dlitz@dlitz.net>; Sun, 23 Nov 2008 06:51:58 -0600 (CST)

Received: (qmail 3992 invoked from network); 23 Nov 2008 12:51:52 -0000

Received: from dsl092-163-165.wdc2.dsl.speakeasy.net (HELO localhost) (akuchling@[66.92.163.165])
(envelope-sender <amk@amk.ca>)

by mail5.sea5.speakeasy.net (qmail-ldap-1.03) with AES256-SHA encrypted SMTP
for <dlitz@dlitz.net>; 23 Nov 2008 12:51:52 -0000

Date: Sun, 23 Nov 2008 07:51:34 -0500

From: "A.M. Kuchling" <amk@amk.ca>

To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

Subject: Re: PyCrypto license clarification

Message-ID: <20081123125134.GA21239@amk.local>

Reply-To: amk@amk.ca

References: <20081123051722.GA29253@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

In-Reply-To: <20081123051722.GA29253@rivest.dlitz.net>

User-Agent:
Mutt/1.5.13 (2006-08-11)
Status: RO
Content-Length: 537
Lines: 15

> People often ask me what license PyCrypto is covered by, if it's
> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?

You may.

--amk
From dlitz@dlitz.net Sat Feb 28 23:24:14 2009
Date: Sat, 28 Feb 2009 23:24:14 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Jeethu Rao <jeethurao@gmail.com>
Subject: PyCrypto license clarification
Message-ID: <20090301042414.GA15122@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2513

Hi Jeethu,

I am the new maintainer of the Python Cryptography Toolkit, and I am
working on a new release at <http://www.pycrypto.org/>.

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there are no restrictions on further
dissemination and usage except those imposed by the laws of your

country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg.

I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following text for their contributions.

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=====

Regards,
- Dwayne

--
Dwayne C. Litzengerger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From jeethurao@gmail.com Sun Mar 8 17:28:16 2009
X-Maildir-Dup-Checked:
Yes
Return-Path: <jeethurao@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 0CC83515D9

for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 17:28:16 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 4E58F450CB
for <dwon@rivest.dlitz.net>; Sun, 8 Mar 2009 15:28:15 -0600 (CST)
Received: (vmmailmgr-postfix 5011 invoked by uid 1003); 8 Mar 2009 15:28:15 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 209.85.198.249 is authorized to use 'jeethurao@gmail.com' in
'mfrom' identity (mechanism 'ip4:209.85.128.0/17' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-
from="jeethurao@gmail.com"; helo=rv-out-0708.google.com; client-ip=209.85.198.249
Received: from rv-out-0708.google.com (unknown [209.85.198.249])
by goedel.dlitz.net
(Postfix) with ESMTP id 3C097449E7
for <dlitz@dlitz.net>; Sun, 8 Mar 2009 15:28:12 -0600 (CST)
Received: by rv-out-0708.google.com with SMTP id k29so1252333rvb.26
for <dlitz@dlitz.net>; Sun, 08 Mar 2009 14:27:56 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:date:message-id:subject:from:to:content-type;
bh=YWy9U32WCU/ksRqukHwaOZyJQBU4Yvt5mI20U6mI/g=;
b=oMjI22IIXYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVEyzBbNscyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=
DomainKey-Signature: a=rsa-sha1; c=noaws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:date:message-id:subject:from:to
:content-type;
b=Ym7CStuDEfJKay1AJyWzkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLvGVH8p
bqSHpfWKKtEP4gAQkiNeIq1GNtR2j8U3fnRyg=
MIME-Version: 1.0
Received: by 10.141.176.13 with SMTP id d13mr2656028rvp.231.1236547674677;
Sun, 08 Mar 2009 14:27:54 -0700 (PDT)
In-Reply-To: <20090301042414.GA15122@rivest.dlitz.net>
References: <20090301042414.GA15122@rivest.dlitz.net>
Date: Mon, 9 Mar 2009 02:57:54 +0530
Message-ID: <e3c0ddba0903081427p3a7b1058g417dd8624df68d6d@mail.gmail.com>
Subject: Re: PyCrypto license clarification
From: Jeethu Rao <jeethurao@gmail.com>
To: "Dwayne C. Litzberger" <dlitz@dlitz.net>
Content-Type: multipart/alternative; boundary=000e0cd209d0e5a3d40464a23054
Status: RO
Content-Length: 7668

--000e0cd209d0e5a3d40464a23054
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Dwayne, My contribution to pycrypto are very very minimal (The sha256 module, IIRC).

I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.

I don't really

check this email address all that often,

please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <dlitz@dlitz.net> wrote:

> Hi Jeethu,

>

> I am the new maintainer of the Python Cryptography Toolkit, and I am

> working on a new release at <http://www.pycrypto.org/>.

>

> People often ask me what license PyCrypto is covered by, if it's

> GPL-compatible, etc. Right now, I'm not really sure what to tell them. The

> text in the current LICENSE file (quoted below) is not entirely clear on the

> point of whether distributing modified versions is allowed. (It says

> "distribute and use", but not "modify".)

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> Distribute and use freely; there are no restrictions on further

> dissemination and usage except those imposed by the laws of your

> country of residence. This software is provided "as is" without

> warranty of fitness for use or suitability for any purpose,

express

> or implied. Use at your own risk or not at all.

> =====

>

> Incorporating the code into commercial products is permitted; you do

> not have to make source available or contribute your changes back

> (though that would be nice).

>

> --amk (www.amk.ca)

>

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> any purpose whatsoever. No rights are reserved.
> =====
>
> Regards,
> - Dwayne
>
> --
> Dwayne C. Litzenger <dlitz@dlitz.net>
> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
>

--
Jeethu Rao

--000e0cd209d0e5a3d40464a23054
Content-Type: text/html; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

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module, IIRC).</div><div>I'm
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or PyCrypto.</div><div>
</div><div>Jeethu Rao</div><div>PS: Apologies for
the delay in my response.</div>
<div>I don't really check this email address all that often,</div><div>=
please direct any further correspondence to <a href="mailto:jeethu@jeethu=
rao.com">jeethu@jeethurao.com
<div>
<div class="gmail_quote">On=
Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenger <=
dlitz@dlitz.net wrote:<br=
>
<blockquote class="gmail_quote" style="margin: 0 0 0 .8ex; border-left: 1px=
x #ccc solid; padding-left: 1ex;">Hi Jeethu,

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--amk

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--amk
=www.amk.ca

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To the

extent that dedication to the public domain is not available, everyone
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to exercise all rights associated with the contents of this file for
any purpose whatsoever. =A0No rights are reserved.

=3D=
=3D=
=3D

Regards,

- Dwayne

--

Dwayne C. Litzenger

<dlitz@dlitz.net>

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A0A24 928C EC1=3D 39C2 5CF7

</blockquote></div>
<br clear=3D"all">
--
Jeethu Rao
</div></div>

--000e0cd209d0e5a3d40464a23054--

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):

~~~~~

Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see [LEGAL/copy/LICENSE.orig](#)).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission

from the original contributors to

dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other

sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).
4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:

The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Exception:

- Portions of HMAC.py and setup.py are derived from Python 2.2, and are therefore Copyright (c) 2001, 2002, 2003 Python Software Foundation (All Rights Reserved). They are licensed by the PSF under the terms of the Python 2.2 license. (See the file LEGAL/copy/LICENSE.python-2.2 for details.)

EXPORT RESTRICTIONS:

Note that the export or re-export of cryptographic software and/or source code may be subject to regulation in your jurisdiction.

From dlitz@dlitz.net Mon May 4 22:49:14 2009

Date: Mon, 4 May 2009 22:49:14 -0400

From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>

To: Joris Bontje <joris@bontje.nl>

Subject: PyCrypto license clarification  
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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or implied. Use at your own risk or not at all.  
=====

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

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to exercise all rights associated with the contents of this file for  
any purpose whatsoever. No rights are reserved.  
=====

Regards,

- Dwayne

--

Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From joris@bontje.nl

Tue May 5 03:08:32 2009

X-Maildir-Dup-Checked: Yes

Return-Path: <joris@bontje.nl>

X-Original-To: dwon@rivest.dlitz.net

Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])

by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 03:08:32 -0400 (EDT)

Received: from localhost (localhost [127.0.0.1])

by goedel.dlitz.net (Postfix) with QMQP id 2315B40583

for <dwon@rivest.dlitz.net>; Tue, 5 May 2009 01:08:32 -0600 (CST)

Received: (vmmailmgr-postfix 16890 invoked by uid 1003); 5 May 2009 01:08:32 -0600

Delivered-To: m-dlitz-dlitz@dlitz.net

Received-SPF: none (bontje.nl: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="joris@bontje.nl"; helo=smtp6.versatel.nl; client-ip=62.58.50.97

Received: from smtp6.versatel.nl (smtp6.versatel.nl [62.58.50.97])

by goedel.dlitz.net (Postfix) with ESMTP id 2D76A4052C

for <dlitz@dlitz.net>; Tue, 5 May 2009 01:08:30

-0600 (CST)

Received: (qmail 4224 invoked by uid 0); 5 May 2009 07:08:25 -0000

Received: from qmail06.zonnet.nl (HELO dell062.admin.zonnet.nl) ([10.170.1.123])

(envelope-sender <joris@bontje.nl>)

by 10.170.1.96 (qmail-ldap-1.03) with SMTP

for <>; 5 May 2009 07:08:25 -0000

Received: by dell062.admin.zonnet.nl (Postfix, from userid 33)

id 9BE9B15759B; Tue, 5 May 2009 09:08:25 +0200 (CEST)

Received: from firewall66.interaccess.nl (firewall66.interaccess.nl

[193.173.35.66]) by www.webmail.vuurwerk.nl (Horde MIME library) with HTTP;

Tue, 05 May 2009 09:08:25 +0200

Message-ID: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>

Date: Tue, 05 May 2009 09:08:25 +0200

From: joris@bontje.nl  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Subject: Re: PyCrypto license clarification  
References: <20090505024914.GA9219@rivest.dlitz.net>  
In-Reply-To: <20090505024914.GA9219@rivest.dlitz.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset=ISO-8859-1;  
format="flowed"  
Content-Disposition:  
inline  
Content-Transfer-Encoding: 7bit  
User-Agent: Internet Messaging Program (IMP) H3 (4.1.3)  
Status: RO  
X-Status: A  
Content-Length: 3488

Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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Citeren  
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> Dwayne C. Litzenger <dlitz@dlitz.net>

> Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From dlitz@dlitz.net Tue May 5 17:53:47 2009  
Date: Tue, 5 May 2009 17:53:47 -0400  
From: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
To: joris@bontje.nl  
Subject: Re: PyCrypto license clarification  
Message-ID: <20090505215347.GB9933@rivest.dlitz.net>  
References: <20090505024914.GA9219@rivest.dlitz.net>  
<20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
MIME-Version:  
1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Disposition: inline  
In-Reply-To: <20090505090825.gsq1ps7hg08wwwok@www.webmail.vuurwerk.nl>  
X-Primary-Address: dlitz@dlitz.net  
X-Homepage: http://www.dlitz.net/  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=19E11FE8B3CFF273ED174A24928CEC1339C25CF7 (only for key signing);  
preference=unprotected  
X-OpenPGP: url=http://www.dlitz.net/go/gpgkey/  
id=4B2AFD82FC7D9E3838D9179F1C11B877E7804B45 (2008);  
preference=signencrypt  
User-Agent: Mutt/1.5.16 (2007-06-11)  
Status: RO  
Content-Length: 3863

Excellent! Thank you!

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>> Dwayne C. Litzenger <dlitz@dlitz.net>

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>

>

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Dwayne C. Litzenger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009

Date: Sat, 28 Feb 2009 21:45:09 -0500

From: "Dwayne C. Litzenger" <dlitz@dlitz.net>

To: Barry A Warsaw <barry@python.org>

Subject: PyCrypto license clarification

Message-ID: <20090301024509.GA13195@rivest.dlitz.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Disposition: inline

User-Agent: Mutt/1.5.16 (2007-06-11)

Status: RO

Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am  
working on a new release at <http://www.pycrypto.org/>.

People often ask me what license PyCrypto is covered by, if it's  
GPL-compatible, etc. Right now, I'm not really sure what to tell them.  
The text in the current LICENSE file (quoted below) is not entirely clear  
on the point of whether distributing modified versions is allowed. (It  
says "distribute and use", but not "modify".)

=====

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dissemination and usage except those imposed by the laws of your

country of residence. This software is provided "as is" without warranty of fitness for use or suitability for any purpose, express or implied. Use at your own risk or not at all.

=====  
Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).

--amk (www.amk.ca)

For the next PyCrypto release, I would like to take steps to move toward a clearer licensing regime. I am asking as many copyright holders as I can find if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in Intellectual Property and Open Source: A Practical Guide to Protecting Code, by Van Lindberg. I have already contacted A. M. Kuchling, Robey Pointer, and Wim Lewis, and they have all approved the following dedication for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

=====  
The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone is granted a worldwide, perpetual, royalty-free, non-exclusive license to exercise all rights associated with the contents of this file for any purpose whatsoever. No rights are reserved.  
=====

Regards,  
- Dwayne

--  
Dwayne C. Litzberger <dlitz@dlitz.net>  
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From barry@python.org Mon  
Mar 2 11:29:39 2009  
X-Maildir-Dup-Checked: Yes  
Return-Path: <barry@python.org>  
X-Original-To: dwon@rivest.dlitz.net  
Delivered-To: dwon@rivest.dlitz.net  
Received: from goedel.dlitz.net (unknown [10.159.255.6])  
by rivest.dlitz.net (Postfix) with ESMTP id 6E01AC6640B

for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 11:29:39 -0500 (EST)  
Received: from localhost (localhost [127.0.0.1])  
by goedel.dlitz.net (Postfix) with QMQP id 0644E1007A  
for <dwon@rivest.dlitz.net>; Mon, 2 Mar 2009 10:29:39 -0600 (CST)  
Received: (vmmailmgr-postfix 8668 invoked by uid 1003); 2 Mar 2009 10:29:39 -0600  
Delivered-To: m-dlitz-dlitz@dlitz.net  
Received-SPF: none (python.org: No applicable sender policy available) receiver=goedel.dlitz.net; identity=mfrom;  
envelope-from="barry@python.org"; helo=mail.wooz.org; client-ip=216.15.33.230  
Received: from mail.wooz.org (216-15-33-230.c3-0.slv-ubr2.lnh-slv.md.static.cable.rcn.com [216.15.33.230])  
by goedel.dlitz.net (Postfix) with ESMTP id CCEA110073  
for <dlitz@dlitz.net>;  
Mon, 2 Mar 2009 10:29:38 -0600 (CST)  
Received: from snowdog.wooz.org (snowdog.wooz.org [192.168.11.202])  
by mail.wooz.org (Postfix) with ESMTPSA id ACE30E3C9F  
for <dlitz@dlitz.net>; Mon, 2 Mar 2009 11:29:35 -0500 (EST)  
Message-Id: <09BF1A39-B015-4820-97A3-8642490C8254@python.org>  
From: Barry Warsaw <barry@python.org>  
To: Dwayne C. Litzenberger <dlitz@dlitz.net>  
In-Reply-To: <20090301024509.GA13195@rivest.dlitz.net>  
Content-Type: text/plain; charset=US-ASCII; format=flowed; delp=yes  
Content-Transfer-Encoding: quoted-printable  
Mime-Version: 1.0 (Apple Message framework v930.3)  
Subject: Re: PyCrypto license clarification  
Date: Mon, 2 Mar 2009 11:29:34 -0500  
References: <20090301024509.GA13195@rivest.dlitz.net>  
X-Pgp-Agent: GPGMail d55 (v55, Leopard)  
X-Mailer: Apple Mail (2.930.3)  
Status: RO  
Content-Length: 869

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit,  
and I am =20=

> working on a new release at <http://www.pycrypto.org/>.

Great! I'm glad to see someone taking up the mantle of this important =20=

Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=  
> on your behalf, dedicate to the public domain all your contributions =20=

> to PyCrypto, with the following notice?

Absolutely yes.

Cheers,  
Barry

-----BEGIN PGP SIGNATURE-----  
Version: GnuPG v1.4.9 (Darwin)

iQCVAwUBSawJbnEjvBPtnXfVAQLZjgP/ecG+JdZwNvPJRfsa6rhY6+MHLdHI6agk  
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SK4w9VBJtfY=3D  
=3DQduY

-----END PGP SIGNATURE-----

Date: Mon, 16 Feb 2009 12:58:00 -0800  
From: Robey Pointer <robey@lag.net>  
Subject: Re: PyCrypto license clarification  
To: "Dwayne C. Litzenger" <dlitz@dlitz.net>  
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)  
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----  
Hash: SHA1

On 23 Nov 2008, at 07:42, Dwayne C. Litzenger wrote:

> For the next PyCrypto release, I would like to take steps to move  
> toward a clearer licensing regime. I am asking as many copyright  
> holders as I can find if I can release PyCrypto under something  
> clearer and more standard. Below, I have quoted a public domain  
> dedication that was recommended in Intellectual Property and Open  
> Source: A Practical Guide to Protecting Code, by Van Lindberg. I  
> have already contacted A. M. Kuchling, and he has approved the  
> following dedication for his contributions.

>  
> May I, on your behalf, dedicate  
> to the public domain all your  
> contributions to PyCrypto, with the following notice?

>  
>  
> =  
> =====

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>  
> =  
> =====  
>

In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ01gACgkQQQDkKvyJ6cOLvQCfQmYYuVODvIlyLg0hgCI9LAbQ  
SH8AoLJgaq1lli7/ZYDc+/Cd8VO0xLbr  
=Mv6g

-----END PGP SIGNATURE-----

00INDEX This file

LICENSE.orig Original (deprecated) license for the Python Cryptography Toolkit

LICENSE.libtom LICENSE file from LibTomCrypt

stmts/ Statements by contributors

# 1.125 python3-pyudev 0.21.0 r0

## 1.125.1 Available under license :

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Version 2.1, February 1999

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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.

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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.

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

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- 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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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

## 1.126 tcpdump 4.9.3 r0

### 1.126.1 Available under license :

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## 1.127 systemd-bootchart

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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# 1.132 cJSON 1.7.10+gitAUTOINC+c69134d017 r0

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=====

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thanks to all the people who reported bugs and suggested new features.

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## 1.133 go-patricia

## 2.2.6+gitAUTOINC+666120de43 r0

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### 0.0+gitAUTOINC+2c00daeb6c r0

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### 3.0+gitAUTOINC+a3e58764f5 r0

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The hypothetical commands

```
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<signature of Ty Coon>, 1 April 1989
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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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## 1.138 bluez-tools

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## 1.139 docker

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

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<http://github.com/gogo/protobuf>

Go support for Protocol Buffers - Google's data interchange format

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Gocheck - A rich testing framework for Go

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## 1.142 tipc-utils

## 2.2.0+gitAUTOINC+7ab2211b87 r0

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```
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 *
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*/w

```

## 1.143 tcp-wrappers 7.6 r10

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## 1.145 python-pyudev 0.21.0 r0

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# 1.146 python3-iso8601 0.1.12 r0

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## 1.147 python-setuptools 41.6.0 r0

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## 1.148 python3-pyserial 3.4 r0

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## 1.150 pam 1.3.1 r0

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# 1.151 kmod 26 r0

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

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## 1.153 libyaml 0.2.2 r0

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## 1.155 python-six 1.12.0 r0

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# Contributions to the urllib3 project

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## Contributors

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

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\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.



- \* studer <theo.studer@gmail.com>
- \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
  
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- \* Corrected multipart behavior for params
  
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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters

- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwall.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes

- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter

- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency
- improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.

- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header

regardless of case when redirecting to cross-site

\* James Meickle <<https://permadeath.com/>>

\* Improve handling of Retry-After header

\* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>

\* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.

\* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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# 1.164 less 551 r0

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## 1.166 python-attrs 19.2.0 r0

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## 1.167 gnulib 2018-03-07.03 r0

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Files:

tests/test-update-copyright.sh

Depends-on:

configure.ac:

```
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
```

```
AC_SUBST([abs_aux_dir])
```

Makefile.am:

```
TESTS += test-update-copyright.sh
```

```
TESTS_ENVIRONMENT += abs_aux_dir='${abs_aux_dir}'
```

```
@c The GNU Lesser General Public License.
```

```
@center Version 2.1, February 1999
```

```
@c This file is intended to be included within another document,
```

```
@c hence no sectioning command or @node.
```

```
@display
```

```
Copyright @copyright{ } 1991, 1999 Free Software Foundation, Inc.
```

```
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```

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```
@end display
```

```
@subheading Preamble
```

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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.

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.

@item

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@enumerate a

@item

The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must

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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.)

@end enumerate

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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

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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.

@item

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@item

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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.

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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.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

directing the user to the copy of  
this License. Also, you must do one  
of these things:

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@item

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

@item

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

@item

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

@item

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

@item

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

@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that

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@item

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

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end  
smallexample

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You should also get your employer (if you work as a programmer) or your  
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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
@end smallexample

That's all there is to it!

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Version 3, 29 June 2007

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the Library is deemed a mode  
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d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the

Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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Description:

Concatenate two arbitrary file names.

Files:

lib/filenamecat.h

lib/filenamecat-lgpl.c

m4/filenamecat.m4

Depends-on:

dirname-lgpl

configure.ac:

gl\_FILE\_NAME\_CONCAT\_LGPL

Makefile.am:

lib\_SOURCES += filenamecat-lgpl.c

Include:

"filenamecat.h"

License:

LGPLv2+

Maintainer:

Jim Meyering

\$Id: COPYING,v 1.3 2006-10-26 16:20:28 eggert Exp \$

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@c hence no sectioning command or @node.

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

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@item

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.)

@end enumerate

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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as  
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@page  
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```
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and a brief idea of what it does.}
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```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{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.
@end smallexample
```

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@var{signature of Ty Coon}, 1 April 1989

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Interpretation of Sections 15 and 16.

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

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

```
<program> Copyright (C) <year> <name of author>  
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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

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Files:

tests/test-canonicalize-lgpl.c  
tests/signature.h  
tests/null-ptr.h  
tests/macros.h

Depends-on:

ignore-value  
same-inode  
symlink

configure.ac:

Makefile.am:

TESTS += test-canonicalize-lgpl  
check\_PROGRAMS += test-canonicalize-lgpl

Description:

Provide the GNU Free Documentation License in Texinfo format.

Files:

doc/fdl.texi

Depends-on:

configure.ac:

Makefile.am:

Include:

License:

unmodifiable license text

Maintainer:

all

Legal Issues about Contributing Code to GNU last updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means

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This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

- \* Assign the copyright to the Free Software Foundation.

This allows the FSF to act to stop violations of the GPL.

- \* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

- \* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.

- \* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we

believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

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If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

\* Public domain.

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The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes,

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If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987  
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

\* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

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Please use your full legal name (in ASCII characters) as the subject line of the message.

-----  
REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES



[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes?  
Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own  
your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]

[Please write your email address here.]

[Please write your postal address here.]

[Which files have you changed so far, and which new files have you written  
so far?]

Description:

Help make libraries relocatable, that is, to allow them to function  
properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi

lib/relocatable.h

lib/relocatable.c

lib/relocatable.valgrind

m4/relocatable-lib.m4

Depends-on:

strdup

configure.ac:

```
gl_RELOCATABLE_LIBRARY
```

```
if test $RELOCATABLE = yes; then
```

```
  AC_LIBOBJ([relocatable])
```

```
fi
```

Makefile.am:  
DEFS += -DNO\_XMALLOC

Include:  
"relocatable.h"

License:  
LGPLv2+

Maintainer:  
Ben Pfaff  
The files in this directory describe the gnu lib modules.  
The following copyright notice applies to each of these  
description files.

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Description:  
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:  
lib/getcwd-lgpl.c  
m4/getcwd.m4

Depends-on:  
unistd  
strdup [test \$REPLACE\_GETCWD = 1]

```
configure.ac:  
gl_FUNC_GETCWD_LGPL  
if test $REPLACE_GETCWD = 1; then  
  AC_LIBOBJ([getcwd-lgpl])  
fi  
gl_UNISTD_MODULE_INDICATOR([getcwd])
```

Makefile.am:

Include:  
<unistd.h>

License:  
LGPLv2+

Maintainer:  
Eric Blake

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Version 2, June 1991

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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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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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```
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it  
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```

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<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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object code for the work under the terms of Section 6.

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a) Accompany

the work with the complete corresponding

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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

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-----  
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[What year were you born?]

[Please write your email address here.]

[Please write your  
postal address here.]

[Which files have you changed so far, and which new files have you written  
so far?]

Files:

tests/test-getcwd-lgpl.c

tests/signature.h

tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

TESTS += test-getcwd-lgpl

check\_PROGRAMS += test-getcwd-lgpl

test\_getcwd\_ldlgpl\_LDADD = \$(LDADD) \$(LIBINTL)

Description:

Locating a program in PATH (LGPLed version).

Files:

lib/findprog.h

lib/findprog.c

lib/findprog-lgpl.c

m4/findprog.m4

m4/eaccess.m4

Depends-on:

stdbool

strdup

concat-filename

unistd

configure.ac:

gl\_FINDPROG

gl\_MODULE\_INDICATOR([findprog-lgpl])

Makefile.am:

lib\_SOURCES += findprog.h findprog.c

Include:

"findprog.h"

License:  
LGPLv2+

Maintainer:  
all

Please email the following information to [assign@gnu.org](mailto:assign@gnu.org), and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

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your changes?]

[Please write your email address here.]

[Please write your snail address here.]

[Please list the files involved, or give a brief description of the changes  
being disclaimed.]

Description:

Extract specific portions of filenames.

Files:

lib/dirname.h  
lib/dirname-lgpl.c  
lib/basename-lgpl.c  
lib/stripslash.c  
m4/dirname.m4

Depends-on:

dosname  
double-slash-root  
malloc-posix  
stdbool

configure.ac:

gl\_DIRNAME\_LGPL

Makefile.am:

lib\_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:

"dirname.h"

License:

LGPLv2+

Maintainer:

Jim Meyering, Eric Blake

Description:

realpath, canonicalize\_file\_name: Provide canonical absolute file name

Files:

lib/canonicalize-lgpl.c  
m4/canonicalize.m4  
m4/double-slash-root.m4

Depends-on:

extensions  
stdlib  
nocrash  
alloca-opt [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
errno [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test  
\$REPLACE\_CANONICALIZE\_FILE\_NAME = 1]  
lstat [test \$HAVE\_CANONICALIZE\_FILE\_NAME = 0 || test \$REPLACE\_CANONICALIZE\_FILE\_NAME  
= 1]



```
alloca      [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax     [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat    [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test
$REPLACE_CANONICALIZE_FILE_NAME = 1]
```

configure.ac:

```
gl_CANONICALIZE_LGPL
if
  test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
    AC_LIBOBJ([canonicalize-lgpl])
  fi
gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])
```

Makefile.am:

Include:

```
<stdlib.h>
```

License:

```
GPLv2+
```

Maintainer:

```
all
```

# 1.168 python3-wcwidth 0.1.7 r0

## 1.168.1 Available under license :

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## 1.169 python3-pygobject 3.34.0 r0

### 1.169.1 Available under license :

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Version 2.1, February 1999

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

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(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.

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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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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.

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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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## 1.170 grub 2.04 r0

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The

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

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DRuntime: Runtime Library for the D Programming Language

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# 1.181 libtasn 4.14 r0

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## 1.183 ethtool 5.2 r0

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## 1.186 python-more-itertools 5.0.0 r0

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- Pavel Vymetalek (pvymetalek@seznam.cz) contributed the higher baudrates support.
- Niels Moller (nisse@lysator.liu.se) contributed support for non-alphabetic escape keys.
- (lwithers@gmail.com) contributed fixes to select(2) and read(2) error handling.
- (bob.dunlop@xyzy.org.uk) suggested fix to prevent serial port from becoming controlling terminal.
- Edgar Johansen (edgar@storteig.com) suggested conditionals to enable compilation without UUCP\_LOCK\_DIR
- Scott Tsai (scott.tw@gmail.com) suggested better UUCP\_LOCK\_DIR definition

- Josh Handley (<https://github.com/jhandley>) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: <https://github.com/jhandley/picocom>
- Salvatore Sanfilippo (<https://github.com/antirez>) is the author of the linenoise line-editing library. See: <https://github.com/antirez/linenoise>
- From Cody Schafer's (<https://github.com/jmesmon>) fork originated the idea to add custom baudrate support to picocom. See: <https://github.com/jmesmon/picocom>
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- Vicente Olivert Riera ([Vincent.Riera@imgtec.com](mailto:Vincent.Riera@imgtec.com)) contributed minor patches
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- Maciej Grela (<https://github.com/mgrela>) contributed the initial --initstring option implementation.
- Baruch Siach (<https://github.com/baruchsiach>) contributed improvements to the Makefile
- Christopher N. Hesse (<https://github.com/raymanfx>) contributed the initial Android makefile
- Ben (<https://github.com/the-dem>) contributed backward compatibility fixes.

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```
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```

```
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,
```

```

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

```

# Dependencies [i.e. map files] for the final library

BIR\_DEPS=

## Remove shared library 's'

STATIC\_PREFIX\_WHEN\_USED =

STATIC\_PREFIX =

## End BSD-specific setup

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# -----

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# 1.192 coreutils 8.31 r0

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## 1.193 trace-cmd 2.8.3 r0

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a)

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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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bzip2/libbzip2 version 1.0.8 of 13 July 2019  
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# 1.200 nghttp2 1.39.2 r0

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.201 bash-completion 2.9 r0

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Whether this is true is especially significant if the work can be  
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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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Any

executables containing that work also fall under Section 6,  
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```

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# 1.203 autoconf-archive 2019.01.06 r0

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## 1.208 python-six 1.14.0 r0

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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.)

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.

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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

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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.

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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## 1.212 gnome-desktop-testing 2018.1 r0

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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 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.

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## 1.214 python3-more-itertools 7.2.0 r0

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## 1.216 python3-pyparsing 2.4.2 r0

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pycparser -- A C parser in Python

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include/bsd/err.h

include/bsd/stdlib.h

include/bsd/sys/param.h

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src/bsd\_getopt.c

src/err.c

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include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
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man/heapsort.3bsd  
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man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcslcpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
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man/humanize\_number.3bsd  
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man/pidfile.3bsd  
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man/strtonum.3bsd  
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src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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## 1.223 zip 3.0 r2

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Version 2.1, February 1999

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That's all there is to it!

# 1.225 inotify-tools 3.20.1 r0

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```
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```

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Ty Coon, President of Vice
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## 1.226 python-zipp 0.6.0 r0

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Version 2.1, February 1999

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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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# 1.228 python-cffi 1.12.3 r0

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# 1.230 gawk 5.0.1 r0

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Version 2, June 1991

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## 1.232 python-cryptography-vectors 2.7 r0

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## 1.233 python3-pytz 2019.2 r0

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# 1.235 hd-parm 9.58 r0

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Andric, Dimitry  
Barron, Danny  
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Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
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Dill, David  
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Hoover, Adam  
Hunter, Michael T.  
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Moffat, Darren  
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Mueller, Andreas  
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Nikitser, Peter A.  
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Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
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Street, Russell  
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Wieringen, Marco van  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
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Kazik, Duan  
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Marchal, Frdric  
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## 1.240 busybox 1.31.0 r0

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## 1.241 python-pyparsing 2.4.2 r0

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## 1.246 libunwind 1.3.1 r0

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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  
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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     |
| 3.0   | 2.6       | 2008      | PSF        | yes     |
| 3.0.1 | 3.0       | 2009      | PSF        | yes     |
| 3.1   | 3.0.1     | 2009      | PSF        | yes     |
| 3.1.1 | 3.1       | 2009      | PSF        | yes     |
| 3.1.2 | 3.1       | 2010      | PSF        | yes     |
| 3.2   | 3.1       | 2010      | PSF        | yes     |

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file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
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an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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Written by: Philip Hazel  
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## 1.251 wireshark 3.0.8 r0

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith

Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many



small  
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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The

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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.

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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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.

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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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# 1.254 libgudev 233 r0

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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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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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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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Otherwise, if the work is a derivative of the Library, you may distribute the

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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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Here is a list of the main contributors to lm-sensors version 3.

\* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

## 1.257 python3-asn1crypto 1.0.1 r0

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## 1.260 libuv 1.32.0 r0

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# 1.266 libnss-nis 3.1+gitAUTOINC+062f31999b r0

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## 1.268 nmap 7.80 r0

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- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
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<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
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- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.  
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- o libsvn. The Subversion library, used by the updater program nmap-update. <http://subversion.apache.org/>
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- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.  
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- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
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Written

by: Philip Hazel

Email local part: ph10

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## 1.270 elfutils 0.178 r0

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## 1.272 strace 5.3 r0

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## 1.279 keyutils 1.6 r0

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## 1.281 libidn 2.2.0 r0

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```
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root function must  
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for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
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## 1.283 python3-atomicwrites 1.3.0 r0

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## 1.284 python3-pycparser 2.20 r0

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## 1.286 gdb 8.3.1 r0

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the

entire combination

fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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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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, 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 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:

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.

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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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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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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END OF TERMS AND CONDITIONS

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```
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Here is a sample; alter the names:

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

That's all there is to it!

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The

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<signature of Ty Coon>, 1 April 1990  
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@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@c man begin DESCRIPTION

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6b.

@item

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@c man end

# 1.287 iptables 1.8.3 r0

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
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## 1.288 python-idna 2.8 r0

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084376762\_1598473689.32/0/idna-2-8-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```

'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
    main()

```

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# 1.289 python-gevent 1.4.0 r0

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# 1.290 dtc 1.5.1 r0

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(principal original author of dtc and libfdt)

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## 1.291 libvirt 5.5.0 r0

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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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# 1.292 gnutls 3.6.13 r0

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@item

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

@item

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@item

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@item

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

@end enumerate

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@enumerate a

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## 1.299 glib 2.60.7 r0

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## 1.307 protobuf 3.9.2 r0

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

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- \* Fixed initialization ordering problem in logging code.

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- \* Small patch improving performance of in Python serialization.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- \* HPUX support.

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- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

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- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

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- \* Added CodedInputStream.getTotalBytesRead().

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- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

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- \* Fixed minor IBM x1C compiler build issues
- \* Added atomicops for AIX (POWER)

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## 1.308 python3-packaging 19.2 r0

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## 1.311 python-setuptools 41.2.0 r0

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## 1.313 libgpiod 1.4.1 r0

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## 1.314 python3-certifi 2019.11.28 r0

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#



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@(#) \$RCSfile: certdata.txt,v \$

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# 1.315 sg3-utils 1.44 r0

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## 1.316 qemu 4.1.0 r0

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```
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```
# tag: General Public License text  
#
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=====

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David Gibson <david@gibson.dropbear.id.au>

(principal original author of dtc and libfdt)

2 November 2007

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=====

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#### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

TianoCore Bugzilla:

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\* April 9, 2019

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=====  
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=====

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.  
For example: Contributed-under: TianoCore Contribution Agreement 1.1  
The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred

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```
=====
= Change Description / Commit Message / Patch Email =
=====
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

\* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion

of the

commit message is the email's content until the '---' line.

\* git format-patch is one way to create this format

==== Definitions for sample patch email ====

\* "Repository" is the identifier of the repository the patch applies.

This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.

\* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.

\* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.

\* "Brief-single-line-summary" is a short summary of the change.

\* The entire first line should be less than ~70 characters.

\* "Full-commit-message"

a verbose multiple line comment describing

the change. Each line should be less than ~70 characters.

\* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.

\* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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= Code Contributions =  
=====

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0  
The "TianoCore Contribution Agreement" is included below in

this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:
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Contributions using other licenses might be accepted, but further review will be required.

=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

=== Definitions for sample patch email ===

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
- \* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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-----  
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Index: debug.c

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v

retrieving revision 1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- debug.c 7 Sep 2007 10:01:21 -0000 1.1

+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3

@@ -52,7 +52,11 @@

void X86EMU\_trace\_regs (void)

{

  if (DEBUG\_TRACE()) {

-  x86emu\_dump\_regs();

+  if (M.x86.mode & (SYSMODE\_PREFIX\_DATA | SYSMODE\_PREFIX\_ADDR)) {

+  x86emu\_dump\_xregs();

+  } else {

+  x86emu\_dump\_regs();

+  }

  }

  if (DEBUG\_DECODE() && ! DEBUG\_DECODE\_NOPRINT()) {

    printk("%04x:%04x ", M.x86.saved\_cs, M.x86.saved\_ip);

@@ -185,7 +189,7 @@

  for (i=0; i< M.x86.enc\_pos; i++) {

    sprintf(buf1+2\*i, "%02x", fetch\_data\_byte\_abs(s,o+i));

  }

-  printk("%-20s", buf1);

+  printk("%-20s ", buf1);

```
}
```

```
static void print_decoded_instruction (void)
```

```
Index: ops2.c
```

```
=====
```

```
RCS file:
```

```
/cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
```

```
retrieving revision 1.1
```

```
retrieving revision 1.3
```

```
diff -u -r1.1 -r1.3
```

```
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
```

```
@@ -149,8 +149,69 @@
```

```
target += (s16) M.x86.R_IP;
```

```
DECODE_PRINTF2("%04x\n", target);
```

```
TRACE_AND_STEP();
```

```
- if (cond)
```

```
+ if (cond) {
```

```
    M.x86.R_IP = (u16)target;
```

```
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
```

```
+ }
```

```
+ DECODE_CLEAR_SEGOVR();
```

```
+ END_OF_INSTR();
```

```
+}
```

```
+
```

```
+/******
```

```
+REMARKS:
```

```
+Handles opcode 0x0f,0xC8-0xCF
```

```
+*****
```

```
+s32 x86emu_bswap(s32 reg)
```

```
+{
```

```
+ // perform the byte swap
```

```
+ s32 temp = reg;
```

```
+ reg = (temp & 0xFF000000) >> 24;
```

```
+ reg |= (temp & 0xFF0000) >> 8;
```

```
+ reg |= (temp & 0xFF00) << 8;
```

```
+ reg |= (temp & 0xFF) << 24;
```

```
+ return reg;
```

```
+}
```

```
+
```

```
+void x86emuOp2_bswap(u8 op2)
```

```
+{
```

```
+
```

```
    /* byte swap 32 bit register */
```

```
+ START_OF_INSTR();
```

```
+ DECODE_PRINTF("BSWAP\t");
```

```
+ switch (op2) {
```

```
+ case 0xc8:
```



```

+   DECODE_PRINTF("EAX\n");
+   M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+   break;
+ case 0xc9:
+   DECODE_PRINTF("ECX\n");
+   M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+   break;
+ case 0xca:
+   DECODE_PRINTF("EDX\n");
+   M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+   break;
+ case 0xcb:
+   DECODE_PRINTF("EBX\n");
+   M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+   break;
+ case 0xcc:
+   DECODE_PRINTF("ESP\n");
+   M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+   break;
+ case 0xcd:
+   DECODE_PRINTF("EBP\n");
+   M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+   break;
+ case 0xce:
+   DECODE_PRINTF("ESI\n");
+   M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+   break;
+ case 0xcf:
+   DECODE_PRINTF("EDI\n");
+   M.x86.R_EDI
+   = x86emu_bswap(M.x86.R_EDI);
+   break;
+ }
+ TRACE_AND_STEP();
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+ }
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */

```

```

-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

```

```

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

```

Index:

ops.c

---

```

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v

```

```

retrieving revision 1.1

```

```

diff -u -u -r1.1 ops.c

```

```

--- ops.c 7 Sep 2007 10:01:21 -0000 1.1

```

```

+++ ops.c 20 Mar 2008 16:52:00 -0000

```

```

@@ -1061,7 +1061,11 @@

```

```

    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();

```

```

-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}

```

```

@@ -1256,8 +1260,10 @@

```

```

    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();

```

```

-   if (cond)
+   if (cond) {
+       M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}

```

```

@@ -2516,9 +2522,11 @@

```

```

    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))

```

```

{
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2526,6 +2534,8 @@
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-   /* move them until CX is ZERO. */
-   count = M.x86.R_CX;
+   /* move them until (E)CX is ZERO. */
+   count = (M.x86.mode
& SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {

```

```

/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+   val1 = fetch_data_byte(M.x86.R_SI);
+   val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
+   cmp_byte(val1, val2);
-   M.x86.R_CX -- 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+
+     M.x86.R_ECX -- 1;
+   else
+     M.x86.R_CX -- 1;
+   M.x86.R_SI += inc;
+   M.x86.R_DI += inc;
+   if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
+   if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+   if (M.x86.intr & INTR_HALTED)
+     break;
+ }
+ M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
+ } else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+     val1 = fetch_data_long(M.x86.R_SI);
+     val2 = fetch_data_long_abs(M.x86.R_ES,
M.x86.R_DI);
@@ -2655,11 +2674,16 @@
+     val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+     cmp_word((u16)val1, (u16)val2);
+   }
-   M.x86.R_CX -- 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+     M.x86.R_ECX -- 1;
+   else
+     M.x86.R_CX -- 1;
+   M.x86.R_SI += inc;
+   M.x86.R_DI += inc;
+   if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
+   if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;

```

```

+     if (M.x86.intr & INTR_HALTED)
+         break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /*
move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-            M.x86.R_CX --;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX --;
+            else
+                M.x86.R_CX --;
            M.x86.R_DI += inc;
+            if (M.x86.intr & INTR_HALTED)
+                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-            /* move them until CX is ZERO. */
-            count = M.x86.R_CX;
+            /* move them until (E)CX is ZERO. */
+            count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
            M.x86.R_CX = 0;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX = 0;

            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
        while (count--) {
@@ -2795,6 +2826,8 @@
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
}

```

```

    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        + if (M.x86.intr & INTR_HALTED)
        +
            break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        - /* move them until CX is ZERO. */
        - count = M.x86.R_CX;
        + /* move them until (E)CX is ZERO. */
        + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    + if (M.x86.intr & INTR_HALTED)
    + break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;

```

```

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /*
REPE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
-   /* move them until CX is ZERO. */
-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-       /* move them until CX is ZERO. */

```

```

-   while (M.x86.R_CX != 0) {
+   /* move them until (E)CX is ZERO. */
+   while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+           val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_long(M.x86.R_EAX,
val);
@@ -2960,16 +3012,21 @@
+           val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+           cmp_word(M.x86.R_AX, (u16)val);
+       }
-   M.x86.R_CX -- 1;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+       M.x86.R_ECX -- 1;
+   else
+       M.x86.R_CX -- 1;
+   M.x86.R_DI += inc;
+   if (ACCESS_FLAG(F_ZF) == 0)
+       break;
+   if (M.x86.intr & INTR_HALTED)
+       break;
+   }
+   M.x86.mode &= ~SYSMODE_PREFIX_REPE;
+   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
+       /* REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+           if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+               val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+               cmp_long(M.x86.R_EAX,
val);
@@ -2977,10 +3034,15 @@
+               val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
+               cmp_word(M.x86.R_AX, (u16)val);
+           }
-           M.x86.R_CX -- 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -- 1;
+           else
+               M.x86.R_CX -- 1;
+           M.x86.R_DI += inc;
+           if (ACCESS_FLAG(F_ZF))
+               break; /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+               break;
+       }

```



```

    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
@@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();

```

```

    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+   else
+   M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+   else
+   M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.R_ECX -= 1;
+   else
+   M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);

```

```

    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();

```

```

M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+   M.x86.mode |= SYSMODE_32BIT_REP;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
  case 4:      /* jmp word ptr ... */
    destval = fetch_data_word(destoffset);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;
  case 5:      /* jmp far ptr ... */
    destval = fetch_data_word(destoffset);
    destval2 = fetch_data_word(destoffset + 2);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;

```

Index: prim\_ops.c

=====

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim\_ops.c,v

retrieving revision

1.1

retrieving revision 1.3

diff -u -u -r1.1 -r1.3

--- prim\_ops.c 7 Sep 2007 10:01:21 -0000 1.1

+++ prim\_ops.c 16 Jan 2008 14:18:15 -0000 1.3

@@ -1921,7 +1921,7 @@

```
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
```

```
{
```

```
#ifdef __HAS_LONG_LONG__
```

```
- s64 res = (s64)d * (s64)s;
```

```
+ s64 res = (s64)(s32)d * (s64)(s32)s;
```

```
    *res_lo = (u32)res;
```

```
    *res_hi = (u32)(res >> 32);
```

@@ -2013,7 +2013,7 @@

```
void mul_long(u32 s)
```

```
{
```

```
#ifdef __HAS_LONG_LONG__
```

```
- u64 res = (u32)M.x86.R_EAX * (u32)s;
```

```
+ u64 res = (u64)M.x86.R_EAX * s;
```

```
    M.x86.R_EAX = (u32)res;
```

```
    M.x86.R_EDX = (u32)(res >> 32);
```

```

@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* in until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* in until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
            single_in(size);
            M.x86.R_DI += inc;
        }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

```

@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
            single_out(size);
            M.x86.R_SI += inc;
        }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode
        &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

```

Index: sys.c

```

=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v

```

retrieving revision 1.1

retrieving revision 1.2

diff -u -u -r1.1 -r1.2

--- sys.c 7 Sep 2007 10:01:21 -0000 1.1

+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2

```

@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
#ifndef LINUXBIOS_VERSION
#include "io.h"
#else
#include <sys/io.h>
#endif

```

```

#ifdef IN_MODULE
#include "xf86_ansi.h"
@@ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

```

/\*\*\*\*\*\*

```

@@ -235,7 +230,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

```

/\*\*\*\*\*\*

```

@@ -250,7 +245,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

```

/\*\*\*\*\*\*

```

@@ -264,7 +259,6 @@
{
DB(if (DEBUG_IO_TRACE())
printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
return;
}

```

```

@@ -279,7 +273,6 @@

```

```

{
DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
return;
}

```

```

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
  printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
return;
}

```

```

@@ -405,6 +397,6 @@

```

```

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
}

```

Index: include/x86emu/debug.h

=====  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v

retrieving revision 1.1

retrieving revision 1.4

diff -u -u -r1.1 -r1.4

--- include/x86emu/debug.h 7

Sep 2007 10:01:21 -0000 1.1

+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4

```

@@ -40,8 +40,6 @@

```

```

#ifndef __X86EMU_DEBUG_H

```

```

#define __X86EMU_DEBUG_H

```

```

-//#define DEBUG 0

```

```

-#undef DEBUG

```

```

/*----- Macros and type definitions -----*/

```

```

/* checks to be enabled for "runtime" */

```

```

@@ -78,6 +76,8 @@

```

```

# define DEBUG_SYSINT()      (M.x86.debug & DEBUG_SYSINT_F)

```

```

# define DEBUG_TRACECALL()  (M.x86.debug & DEBUG_TRACECALL_F)

```

```

# define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)

```

```

+# define DEBUG_TRACEJMP()    (M.x86.debug & DEBUG_TRACEJMP_F)

```

```

+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)

```

```

# define DEBUG_SYS()        (M.x86.debug & DEBUG_SYS_F)

```

```

# define DEBUG_MEM_TRACE()    (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()    (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()      0
# define DEBUG_TRACECALL()   0
# define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP()
    0
+# define DEBUG_TRACEJMPREGS() 0
# define DEBUG_SYS()         0
# define DEBUG_MEM_TRACE()   0
# define DEBUG_IO_TRACE()    0
@@ -169,14 +171,20 @@
    x86emu_dump_regs();
    if (DEBUG_TRACECALL())
        printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
    if (DEBUG_TRACECALLREGS())
        x86emu_dump_regs();
    if (DEBUG_TRACECALL())
-    printk("%04x:%04x: %s\n",u,v,n);
+    printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s)
+    if (DEBUG_TRACEJMPREGS()) \
+    x86emu_dump_regs(); \
+    if (DEBUG_TRACEJMP()) \
+    printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
    define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifndef DEBUG
Index: include/x86emu/regs.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA 0x00000200

```



```

#define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
    SYSMODE_SEGOVR_GS  |\
    SYSMODE_SEGOVR_SS  |\
    SYSMODE_PREFIX_DATA  |\
-   SYSMODE_PREFIX_ADDR)
+   SYSMODE_PREFIX_ADDR  |\
+   SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
    */
    u32          mode;
    volatile int  intr; /* mask of pending interrupts */
- int          debug;
+ volatile int  debug;
#ifdef DEBUG
- int          check;
+ int          check;
    u16         saved_ip;
    u16         saved_cs;
    int         enc_pos;
Index: include/x86emu/x86emu.h
=====
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
-0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000

```

```

#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
+#define DEBUG_TRACEJMP_F 0x020000
+#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
} /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

```

The argparse module was contributed to Python as of Python 2.7 and thus was licensed under the Python license. Same license applies to all files in the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

## History

-----

Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

The QEMU distribution includes both the QEMU emulator and various firmware files. These are separate programs that are distributed together for our users' convenience, and they have separate licenses.

The following points clarify the license of the QEMU emulator:

- 1) The QEMU emulator as a whole is released under the GNU General Public License, version 2.
- 2) Parts of the QEMU emulator have specific licenses which are compatible with the GNU General Public License, version 2. Hence each source file contains its own licensing information. Source files with no licensing information are released under the GNU General Public License, version 2 or (at your option) any later version.

As of July 2013, contributions under version 2 of the GNU General Public License (and no later version) are only accepted for the following files or directories: `bsd-user/`, `linux-user/`, `hw/vfio/`, `hw/xen/xen_pt*`.

3) The Tiny Code Generator (TCG) is released under the BSD license (see license headers in files).

4)

QEMU is a trademark of Fabrice Bellard.

Fabrice Bellard and the QEMU team

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+, this does *not* cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

The header files `"include/image.h"` and `"arch/*/include/asm/u-boot.h"` define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk

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```
==> edk2/License-History.txt <==  
      License-History.txt  
      =====
```

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#### Key Dates

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\* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

#### References:

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#### Proposals (RFCs):

<https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html>

#### TianoCore Bugzilla:

[https://bugzilla.tianocore.org/show\\_bug.cgi?id=629](https://bugzilla.tianocore.org/show_bug.cgi?id=629)

\* April 9, 2019

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<https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html>  
<https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html>

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Contributions.txt: TianoCore Contribution Agreement 1.1

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message

explicitly states that the

contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.

For example: Contributed-under: TianoCore Contribution Agreement 1.1

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [Repository/Branch  
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1  
Signed-off-by: Contributor Name <contributor@example.com>

---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

=== Definitions for sample patch email ===

- \* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
- \* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
- \* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This

agreement is included below in this document.

\* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution

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The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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Contributions using other licenses might be accepted, but further review will be required.



=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or  
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

=== Definitions for sample patch email ===

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
- \* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.

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John R. Hauser  
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\* FreeBSD strace list

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{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
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  "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
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  "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
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  NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
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{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\\\"%s\\\", %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap,
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{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %o, %x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
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{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL
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{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending,
"sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\\\"%s\\\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\\\"%s\\\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\\\"%s\\\",\\\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,
%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \\\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\\\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)",
NULL, NULL },

```

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John R. Hauser  
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\*

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\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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## 1.319 python-pytest 5.1.3 r0

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## 1.321 pixman 0.38.4 r0

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## 1.324 python3-cryptography 2.9 r0

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## 1.325 jansson 2.12 r0

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\*  
\* stdio.c  
\* by Mark Gates <mgates@nlanr.net>  
\* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>  
\* -----  
\* input and output numbers, converting with kilo, mega, giga  
\* ----- \*/

=====

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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.7 2019/01/05 23:51:47 tom Exp \$  
Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: aclocal.m4 package  
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Files: doc/html/NCURSES-Programming-HOWTO.html

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```
-- vile: txtmode file-encoding=utf-8
```

## 1.332 python3-idna 2.9 r0

### 1.332.1 Available under license :

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```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the `"encodings.idna"` module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```

'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: 3.7',
    'Programming Language :: Python :: 3.8',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```
setup(**arguments)
```

```
if __name__ == '__main__':
    main()
```

Found in path(s):

```
* /opt/cola/permits/1084378005_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/setup.py
```

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Metadata-Version: 1.2

Name: idna

Version: 2.9

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`\_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`\_.

This acts as a suitable replacement for the “encodings.idna” module that

comes with the Python standard library,  
but only supports the  
old, deprecated IDNA specification (RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`\_).

Basic functions are simply executed:

```
.. code-block:: pycon

# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode('.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library,  
you can use pip:

```
.. code-block:: bash

$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash

$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

## Usage

-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

## Compatibility Mapping (UTS #46)

+++++

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) <<http://tools.ietf.org/html/rfc5895>>, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.



This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing` <<http://unicode.org/reports/tr46/>>`, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as \*LATIN CAPITAL LETTER K\* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (ß) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
+++++
```

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

## Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

## Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables used for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

\* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

\* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work

in Python 2.7.

Testing

-----

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>` \_.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language

:: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/PKG-INFO

\* /opt/cola/permits/1084378005\_1605212166.93/0/idna-2-9-1-tar-gz/idna-2.9/idna.egg-info/PKG-INFO

## 1.333 gflags 2.2.2 r0

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## 1.334 libpng 1.6.37 r0

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-----  
pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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## 1.339 gobject-introspection 1.60.2 r0

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# 1.340 python3-attrs 19.3.0 r0

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# 1.341 python3-importlib-metadata 0.23 r0

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## 1.343 ptest-runner

## 2.3.2+gitAUTOINC+7015e9199c r0

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## 1.344 diffutils 3.7 r0

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## 1.347 bison 3.4.1 r0

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Version 3, 29 June 2007

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## 1.348 libn13 3.5.0 r0

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## 1.349 python-py 1.8.0 r0

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## 1.350 python-pytz 2019.2 r0

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!DOCTYPE html>
<html>
<head></head>
<body>
  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
</body>
</html>
```

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
</copyright>
<copyright>
```



```
<year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
```

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[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

# 1.353 acpid 2.0.32 r0

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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

That's all there is to it!

# 1.356 python3-gevent 1.4.0 r0

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gevent/libuv/\_corecffi\_source.c  
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Originally based on code from <https://github.com/veege/guv>

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2006-Jan-27

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#

.gitignore

#

builds/unix/pkg.m4

#

```
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
```

```
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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That's all there is to it!  
Mathieu Desnoyers  
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the  
userspace RCU library in a patch submitted on May 8, 2009 from Paul E.  
McKenney and reviewed by Steven L. Bennett:

<https://lists.lttng.org/pipermail/lttng-dev/2009-May/012835.html>

I (Mathieu Desnoyers) re-implemented ACCESS\_ONCE(), likely(), unlikely() and  
barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his  
patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel  
and powerpc. They are MIT-licensed and therefore usable in LGPL code.  
This cmpxchg code was obtained from the atomic\_ops project:

[http://www.hpl.hp.com/research/linux/atomic\\_ops/](http://www.hpl.hp.com/research/linux/atomic_ops/)

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project  
was therefore changed to  
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# 1.360 python-pyasn1 0.4.7 r0

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ASN.1 library for Python

=====

```
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```

Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking

a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.



## Documentation

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```
.. toctree::  
  :maxdepth: 2
```

/pyasn1/contents

## Use case

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```
.. toctree::  
  :maxdepth: 2
```

/example-use-case

## Download & Install

-----

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.. toctree::  
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/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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toctree::  
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```

/changelog

## License

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The PyASN1 software is distributed under 2-clause BSD License.

```
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/license

## Getting help

-----  
Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`  
mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards`  
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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\* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/docs/source/contents.rst

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\* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/pyasn1.egg-info/PKG-INFO

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 \* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/pyasn1/type/constraint.py  
 \* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/tests/codec/\_\_\_main\_\_.py  
 \* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/tests/compat/\_\_\_main\_\_.py  
 \* /opt/ws\_local/PERMITS\_SQL/1084376474\_1598474112.79/0/pyasn1-0-4-7-tar-gz/pyasn1-0.4.7/tests/type/test\_opentype.py

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification]([https://www.itu.int/rec/dologin\\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items)).

## Features

-----

\*

Generic implementation of ASN.1 types (X.208)

\* Standards compliant BER/CER/DER codecs

\* Dumps/loads ASN.1 structures from Python types

\* 100% Python, works with Python 2.4 up to Python 3.7

\* MT-safe

\* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures.

For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```
```

Part of the power of ASN.1 comes from its serialisation features. You

can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
```



```
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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## 1.362 python-wcwidth 0.1.7 r0

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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| 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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## 1.364 python3-cryptography-vectors 2.9 r0

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\* /opt/ws\_local/PERMITS\_SQL/1087863791\_1599606592.98/0/pathlib2-2-3-4-1-tar-gz/pathlib2-

2.3.4/pathlib2/\_\_init\_\_.py

\* /opt/ws\_local/PERMITS\_SQL/1087863791\_1599606592.98/0/pathlib2-2-3-4-1-tar-gz/pathlib2-

2.3.4/tests/test\_pathlib2.py

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1087863791\_1599606592.98/0/pathlib2-2-3-4-1-tar-gz/pathlib2-

2.3.4/pathlib2.egg-info/PKG-INFO

\* /opt/ws\_local/PERMITS\_SQL/1087863791\_1599606592.98/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/PKG-INFO

# 1.372 python3-bcrypt 3.1.4 r0

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# 1.373 bluez 5.50 r0

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## 1.375 python3-paramiko 2.7.2 r0

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">

      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
        </xsl:for-each>
      </xsl:text> </xsl:text>
      <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
    </xsl:call-template>
  </xsl:variable>

```

```
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of
select="$isc.copyright.text"/>
  </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:  
- mode: sgml  
- End:

-->

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## 1.378 python3-flask-socketio 3.3.2 r0

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## 1.379 python3-simplejson 3.16.0 r0

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## 1.380 python3-werkzeug 0.14.1 r0

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## 1.381 python3-flask 1.0.2 r0

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Project-URL: Code, <https://github.com/pallets/click>

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Description: \ \$ click \\_

=====

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
$ pip install -U click
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

A Simple Example

-----

.. code-block:: python

```
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
```



```
click.echo(f"Hello,
{name}!")

if __name__ == '__main__':
    hello()
```

.. code-block:: text

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

Donate

-----

The Pallets organization develops and supports Click and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`\_.

.. \_please donate today: <https://palletsprojects.com/donate>

Links

-----

- Website: <https://palletsprojects.com/p/click/>
- Documentation: <https://click.palletsprojects.com/>
- Releases: <https://pypi.org/project/click/>
- Code: <https://github.com/pallets/click>
- Issue tracker: <https://github.com/pallets/click/issues>
- Test status: [https://dev.azure.com/pallets/click/\\_build](https://dev.azure.com/pallets/click/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/PKG-INFO
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click.egg-info/PKG-INFO
```

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Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/parser.py
```

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/src/click/_compat.py
```

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```
import io
```

```
import re
```

```
from setuptools import find_packages
```

```
from setuptools import setup
```

```
with io.open("README.rst", "rt", encoding="utf8") as f:
```

```
    readme = f.read()
```

```
with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
```

```
    version = re.search(r'__version__ = "(.*?)"', f.read()).group(1)
```

```
setup(
```

```
    name="click",
```

```
    version=version,
```

```
    url="https://palletsprojects.com/p/click/",
```

```
    project_urls={
```

```
        "Documentation": "https://click.palletsprojects.com/",
```

```
        "Code": "https://github.com/pallets/click",
```

```
        "Issue tracker": "https://github.com/pallets/click/issues",
```

```
    },
```

```
    license="BSD-3-Clause",
```

```
    maintainer="Pallets",
```

```
    maintainer_email="contact@palletsprojects.com",
```

```
    description="Composable command line interface toolkit",
```

```
    long_description=readme,
```

```
    packages=find_packages("src"),
```

```
    package_dir={"": "src"},
```

```
    include_package_data=True,
```

```
    python_requires=">=2.7, !=3.0.*",
```

```
!=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 3",
],
)
```

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/setup.py
```

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.. \_contrib:

```
=====
click-contrib
=====
```

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why `click-contrib_` exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please

note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. \_click-contrib: <https://github.com/click-contrib/>

Found in path(s):

```
* /opt/cola/permits/1123974516_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/docs/contrib.rst
```

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Including attribution to #612

Found in path(s):

\* /opt/cola/permits/1123974516\_1612299586.33/0/click-7-1-1-tar-gz/click-7.1.1/tests/test\_formatting.py

# 1.383 python3-multidict 4.7.5 r0

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# 1.384 python3-pynacl 1.4.0 r0

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```

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## 1.386 tzdata 2020a r0

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## 1.387 python3-markupsafe 1.1.1 r0

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```
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 * ~~~~~
 *
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 *
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```

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: The Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

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Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

## Installing

-----

Install and update using ``pip`_`:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. `_pip`: <https://pip.pypa.io/en/stable/quickstart/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
```

```

Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators
escape their arguments
>>> template = Markup("Hello <em>%s</em>")
>>> template % "World"
Markup('Hello <em>&#34;World&#34;</em>')

```

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-----

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-----

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<https://github.com/pallets/markupsafe/issues>
- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
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Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3  
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Classifier: Topic :: Internet :: WWW/HTTP  
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Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=2.7,!<=3.0.\*,!<=3.1.\*,!<=3.2.\*,!<=3.3.\*

Found in path(s):

\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/PKG-INFO  
\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO

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\* /opt/cola/permits/1123974655\_1612299707.81/0/markupsafe-1-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_\_init\_\_.py  
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# 1.388 python3-itsdangerous 0.24 r0

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# 1.389 python 3.7.8 r0

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/\* 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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\* M. Welsh, 6 July 1996

\*/

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for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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Andrew de Quincey <adq\_dvb@lidskialf.net>  
for the tda1004x frontend driver, and various bugfixes

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>

for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop

a

line to the DVB mailing list)

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## 1.395 tcl 8.6.9 r0

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## 1.396 python3-jinja2 2.11.2 r0

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status
:: 5 - Production/Stable",
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        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
```

```
"Topic :: Internet :: WWW/HTTP :: Dynamic Content",
"Topic :: Software Development :: Libraries :: Python Modules",
"Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={"": "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)
```

Found in path(s):

```
* /opt/cola/permits/1155142552_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
```

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Found in path(s):

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst  
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1

Name: Jinja2

Version: 2.11.2

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/jinja>

Project-URL: Issue tracker, <https://github.com/pallets/jinja/issues>

Description: Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can

use autoescaping to prevent XSS from untrusted user input.

- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

-----

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U Jinja2
```

```
.. _pip:
```

<https://pip.pypa.io/en/stable/quickstart/>

In A Nutshell

-----

```
.. code-block:: jinja
```

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

Links

-----

- Website: <https://palletsprojects.com/p/jinja/>
- Documentation: <https://jinja.palletsprojects.com/>
- Releases: <https://pypi.org/project/Jinja2/>
- Code: <https://github.com/pallets/jinja>
- Issue tracker: <https://github.com/pallets/jinja/issues>
- Test status: [https://dev.azure.com/pallets/jinja/\\_build](https://dev.azure.com/pallets/jinja/_build)
- Official chat: <https://discord.gg/t6rrQZH>

Platform: UNKNOWN

Classifier: Development

Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3



Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Programming Language :: Python :: 3.8  
Classifier: Programming Language :: Python :: Implementation :: CPython  
Classifier: Programming Language :: Python :: Implementation :: PyPy  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Software Development :: Libraries :: Python Modules  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*, !=3.4.\*  
Description-Content-Type:  
text/x-rst  
Provides-Extra: i18n

Found in path(s):

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

\* /opt/cola/permits/1155142552\_1620384683.72/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

# 1.397 tpm2-tss-tcti 3.0.1 r0

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# 1.398 python3-engineio 3.13.2 r0

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# 1.399 python3-socketio 4.6.0 r0

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# 1.400 dnsmasq 2.83 r0

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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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Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

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# 1.406 cJSON 1.7.10+git0+c69134d017-r0

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Also

thanks to all the people who reported bugs and suggested new features.

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## 1.407 e2fsprogs

## 1.42.99+1.43+git0+0f26747167-r0

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It is part of the main e2fsprogs distribution, which can be found at:

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

- 
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Gadi Oxman, August 1995

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```

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```

```
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```
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```

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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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This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

```
all:: image
```

```
real-subdirs:: Makefile  
@echo " MKDIR pic"  
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)  
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)  
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))  
$(MV) pic/$(BSD_LIB) .  
$(RM) -f ../$(BSD_LIB)  
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \  
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)  
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"  
@$(INSTALL_PROGRAM) $(BSD_LIB) \  
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)  
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::  
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Theodore Ts'o  
23-June-2007

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

The hypothetical commands `show w' and `show c' should show the appropriate  
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```
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```

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

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<signature of Ty Coon>, 1 April 1990  
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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu:/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu:/pub/linux/packages/ext2fs/)

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: \*

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\* fips/kdf/fips\_kwvs.c - Key Wrap vector tests

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```

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```

/*-----

```

```

* fips/kdf/fips_kdf_ssh.c - SSH KDF vector tests

```

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\* fips/embedsig.c - Utility to embed signatures into files on disk

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 0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/rsa/fips\_rsa\_sign.c  
 \* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-  
 0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/dsa/fips\_dsa\_lib.c  
 \*

```
/opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/dh/fips_dh_lib.c
* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/rsa/fips_rsa_lib.c
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```
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```
/* -----
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\* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/ciscossl-cvmx-asm.h  
\* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/ciscossl-cvmx-platform.h  
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\* crypto/des/asm/cbc\_enc-octeon.c - Cavium Octeon specific hardware assist  
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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-
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- \*

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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/aes/aes_cfb.c
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```
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#define FIPS_AUTH_CRYPTOFFICER "7f92562d409c903322c0f94a1188ae8178339a4f"
#define FIPS_AUTH_CRYPTouser "cb6cbdaad26cd210a8b31a5d56a876ee1d51a96c"
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\* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/bn/bn\_lcl.h

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* 0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/evp/m_ecdsa.c

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```

#!/usr/bin/env perl

```

```

# =====

```

```

# Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
# project. The module is, however, dual licensed under OpenSSL and
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# details see http://www.openssl.org/~appro/cryptogams/.

```

```

# =====

```

```

# I let hardware handle unaligned input(*), except on page boundaries
# (see below for details). Otherwise straightforward implementation
# with X vector in register bank. The module is big-endian [which is
# not big deal as there're no little-endian targets left around].

```

```

#
# (*) this means that this module is inappropriate for PPC403? Does
# anybody know if pre-POWER3 can sustain unaligned load?

```

```

# -m64 -m32

```

```

# -----

```

```

# PPC970,gcc-4.0.0 +76% +59%

```

```

# Power6,xlc-7 +68% +33%

```

```

$flavour
= shift;

if ($flavour =~ /64/) {
    $SIZE_T=8;
    $LRSIZE =2*$SIZE_T;
    $UCMP ="cmpld";
    $STU ="stdu";
    $POP ="ld";
    $PUSH ="std";
} elsif ($flavour =~ /32/) {
    $SIZE_T =4;
    $LRSIZE =$SIZE_T;
    $UCMP ="cmplw";
    $STU ="stwu";
    $POP ="lwz";
    $PUSH ="stw";
} else { die "nonsense $flavour"; }

$0 =~ m/(.*[\\])[^\\]+$/; $dir=$1;
( $xlate="$dir}ppc-xlate.pl" and -f $xlate ) or
( $xlate="$dir}../perlasmppc-xlate.pl" and -f $xlate) or
die "can't locate ppc-xlate.pl";

open STDOUT,"| ^X $xlate $flavour ".shift || die "can't call $xlate: $!";

$FRAME=24*$SIZE_T+64;
$LOCALS=6*$SIZE_T;

$K ="r0";
$sp ="r1";
$toc="r2";
$ctx="r3";
$inp="r4";
$num="r5";
$t0 ="r15";
$t1 ="r6";

$A ="r7";
$B ="r8";
$C ="r9";
$D ="r10";
$E ="r11";
$T ="r12";

@V=(A,B,C,D,E,T);
@X=("r16","r17","r18","r19","r20","r21","r22","r23",

```

"r24","r25","r26","r27","r28","r29","r30","r31");

```
sub BODY_00_19 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<__ if ($i==0);
lwz @X[$i],`$i*4`($inp)

__
$code.=<<__
if ($i<15);
lwz @X[$j],`$j*4`($inp)
add $f,$K,$e
rotlwi $e,$a,5
add $f,$f,@X[$i]
and $t0,$c,$b
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
add $f,$f,$t0

__
$code.=<<__ if ($i>=15);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(($j+2)%16]
add $f,$f,@X[$i%16]
and $t0,$c,$b
xor @X[$j%16],@X[$j%16],@X[(($j+8)%16]
add $f,$f,$e
andc $t1,$d,$b
rotlwi $b,$b,30
or $t0,$t0,$t1
xor @X[$j%16],@X[$j%16],@X[(($j+13)%16]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

__
}
```

```
sub BODY_20_39 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<__ if ($i<79);
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(($j+2)%16]
add $f,$f,@X[$i%16]
xor $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(($j+8)%16]
```

```

add $f,$f,$e
rotlwi $b,$b,30
xor $t0,$t0,$d
xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
add $f,$f,$t0
rotlwi @X[$j%16],@X[$j%16],1

```

```

____
$code.=<<____ if ($i==79);

```

```

add $f,$K,$e
rotlwi $e,$a,5
lwz r16,0($ctx)
add $f,$f,@X[$i%16]
xor $t0,$b,$c
lwz r17,4($ctx)
add $f,$f,$e
rotlwi $b,$b,30
lwz r18,8($ctx)
xor $t0,$t0,$d
lwz r19,12($ctx)
add $f,$f,$t0
lwz r20,16($ctx)

```

```

____
}

```

```

sub

```

```

BODY_40_59 {
my ($i,$a,$b,$c,$d,$e,$f)=@_;
my $j=$i+1;
$code.=<<____;
add $f,$K,$e
rotlwi $e,$a,5
xor @X[$j%16],@X[$j%16],@X[(j+2)%16]
add $f,$f,@X[$i%16]
and $t0,$b,$c
xor @X[$j%16],@X[$j%16],@X[(j+8)%16]
add $f,$f,$e
or $t1,$b,$c
rotlwi $b,$b,30
xor @X[$j%16],@X[$j%16],@X[(j+13)%16]
and $t1,$t1,$d
or $t0,$t0,$t1
rotlwi @X[$j%16],@X[$j%16],1
add $f,$f,$t0

```

```

____
}

```

```

$code=<<____;

```

```

.machine "any"

```

```

.text

.globl .sha1_block_data_order
.align 4
.sha1_block_data_order:
$STU $sp,-$FRAME($sp)
mflr r0
$PUSH r15,`$FRAME-$SIZE_T*17`($sp)
$PUSH r16,`$FRAME-$SIZE_T*16`($sp)
$PUSH r17,`$FRAME-$SIZE_T*15`($sp)
$PUSH r18,`$FRAME-$SIZE_T*14`($sp)
$PUSH r19,`$FRAME-$SIZE_T*13`($sp)
$PUSH r20,`$FRAME-$SIZE_T*12`($sp)
$PUSH r21,`$FRAME-$SIZE_T*11`($sp)
$PUSH r22,`$FRAME-$SIZE_T*10`($sp)
$PUSH r23,`$FRAME-$SIZE_T*9`($sp)
$PUSH r24,`$FRAME-$SIZE_T*8`($sp)
$PUSH r25,`$FRAME-$SIZE_T*7`($sp)
$PUSH r26,`$FRAME-$SIZE_T*6`($sp)
$PUSH r27,`$FRAME-$SIZE_T*5`($sp)
$PUSH r28,`$FRAME-$SIZE_T*4`($sp)
$PUSH r29,`$FRAME-$SIZE_T*3`($sp)
$PUSH r30,`$FRAME-$SIZE_T*2`($sp)
$PUSH r31,`$FRAME-$SIZE_T*1`($sp)
$PUSH r0,`$FRAME+$LRSAVE`($sp)
lwz $A,0($ctx)
lwz $B,4($ctx)
lwz $C,8($ctx)
lwz $D,12($ctx)
lwz $E,16($ctx)
andi. r0,$inp,3
bne Lunaligned
Laligned:
mctr $num
bl Lsha1_block_private
b Ldone

;
PowerPC specification allows an implementation to be ill-behaved
; upon unaligned access which crosses page boundary. "Better safe
; than sorry" principle makes me treat it specially. But I don't
; look for particular offending word, but rather for 64-byte input
; block which crosses the boundary. Once found that block is aligned
; and hashed separately...
.align 4
Lunaligned:
subfic $t1,$inp,4096
andi. $t1,$t1,4095 ; distance to closest page boundary

```

```

srwi. $t1,$t1,6 ; t1/=64
beq Lcross_page
$UCMP $num,$t1
ble- Laligned ; didn't
cross the page boundary
mtctr $t1
subfc $num,$t1,$num
bl Lsha1_block_private
Lcross_page:
li $t1,16
mtctr $t1
addi r20,$sp,$LOCALS ; spot within the frame
Lmemcpy:
lbz r16,0($inp)
lbz r17,1($inp)
lbz r18,2($inp)
lbz r19,3($inp)
addi $inp,$inp,4
stb r16,0(r20)
stb r17,1(r20)
stb r18,2(r20)
stb r19,3(r20)
addi r20,r20,4
bdnz Lmemcpy

$PUSH $inp,`$FRAME-$$SIZE_T*18`($sp)
li $t1,1
addi $inp,$sp,$LOCALS
mtctr $t1
bl Lsha1_block_private
$POP $inp,`$FRAME-$$SIZE_T*18`($sp)
addic. $num,$num,-1
bne- Lunaligned

Ldone:
$POP r0,`$FRAME+$LRSAVE`($sp)
$POP r15,`$FRAME-$$SIZE_T*17`($sp)
$POP r16,`$FRAME-$$SIZE_T*16`($sp)
$POP r17,`$FRAME-$$SIZE_T*15`($sp)
$POP r18,`$FRAME-$$SIZE_T*14`($sp)
$POP r19,`$FRAME-$$SIZE_T*13`($sp)
$POP r20,`$FRAME-$$SIZE_T*12`($sp)
$POP r21,`$FRAME-$$SIZE_T*11`($sp)
$POP r22,`$FRAME-$$SIZE_T*10`($sp)
$POP r23,`$FRAME-$$SIZE_T*9`($sp)
$POP r24,`$FRAME-$$SIZE_T*8`($sp)
$POP r25,`$FRAME-$$SIZE_T*7`($sp)
$POP r26,`$FRAME-$$SIZE_T*6`($sp)

```



```

$POP r27,`$FRAME-$$SIZE_T*5`($sp)
$POP r28,`$FRAME-$$SIZE_T*4`($sp)
$POP r29,`$FRAME-$$SIZE_T*3`($sp)
$POP r30,`$FRAME-$$SIZE_T*2`($sp)
$POP r31,`$FRAME-$$SIZE_T*1`($sp)
mtr r0
addi $sp,$sp,$FRAME
blr
.long 0
.byte 0,12,4,1,0x80,18,3,0
.long 0
—

#
This is private block function, which uses tailored calling
# interface, namely upon entry SHA_CTX is pre-loaded to given
# registers and counter register contains amount of chunks to
# digest...
$code.=<<<___;
.align 4
Lshal_block_private:
—
$code.=<<<___; # load K_00_19
lis $K,0x5a82
ori $K,$K,0x7999
—
for(;$i=0;$i<20;$i++) { &BODY_00_19($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_20_39
lis $K,0x6ed9
ori $K,$K,0xeba1
—
for(;$i<40;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_40_59
lis $K,0x8f1b
ori $K,$K,0xbcdc
—
for(;$i<60;$i++) { &BODY_40_59($i,@V); unshift(@V,pop(@V)); }
$code.=<<<___; # load K_60_79
lis $K,0xca62
ori $K,$K,0xc1d6
—
for(;$i<80;$i++) { &BODY_20_39($i,@V); unshift(@V,pop(@V));
}
$code.=<<<___;
add r16,r16,$E
add r17,r17,$T
add r18,r18,$A
add r19,r19,$B

```

```

add r20,r20,$C
stw r16,0($ctx)
mr $A,r16
stw r17,4($ctx)
mr $B,r17
stw r18,8($ctx)
mr $C,r18
stw r19,12($ctx)
mr $D,r19
stw r20,16($ctx)
mr $E,r20
addi $inp,$inp,`16*4`
bdnz- Lsha1_block_private
blr
.long 0
.byte 0,12,0x14,0,0,0,0,0
-----
$code.=<<____;
.asciz "SHA1 block transform for PPC, CRYPTOGRAMS by <appro\@fy.chalmers.se>"
-----

$code =~ s/`([^\`]*)`/eval $1/gem;
print $code;
close STDOUT;

```

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```

* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/sha/asm/sha1-ppc.pl

```

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* functionality that is to reside within the FIPS canister.
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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/cmac/cmac.c
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*
```

```
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\* fips/rsa/fips\_rsa2gtest.c - RSA2 Key Generation algorithm processing

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\* kdf/kdf\_ssh.c - Key Derivation Function for SSH

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 \* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/des/fips\_desmovs.c

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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/symhacks.h
* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-
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```

/**
* rijndael-alg-fst.c
*
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>

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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/aes/aes\_core.c  
\* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-  
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* kdf/kdf_ikev2.c - Key Derivation Functions for IKEv2
*
* April 2015
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* OF THE POSSIBILITY OF SUCH DAMAGE.
* =====
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-
0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/dsa/dsa_locl.h

```

No license file was found, but licenses were detected in source scan.

```

/* .c>, <crypto/*/* .c>, <ssl/* .c>, <apps/* .c>

```

When this option is NOT specified, the filelist is taken from the commandline instead. Here, wildcards may be embedded. (Be sure to escape those to prevent the shell from expanding them for you when you wish mkerr.pl to do so instead.)

Default: take file list to scan from the command line.

-reindex Discard the numeric values previously assigned to the error and function codes as extracted from the scanned header files; instead renumber all of them starting from 100. (Note that the numbers assigned through 'R' records in the config file remain intact.)

Default: keep previously assigned numbers. (You are warned when collisions are detected.)

-nostatic Generates a different source code, where these additional

functions are generated for each library specified in the config file:

```
void ERR_load_<LIB>_strings(void);
```

```
void ERR_unload_<LIB>_strings(void);
```

```
void ERR_<LIB>_error(int f, int r, char *fn, int ln);
```

```
#define <LIB>err(f,r) ERR_<LIB>_error(f,r,OPENSSL_FILE,OPENSSL_LINE)
```

while the code facilitates the use of these in an environment where the error support routines are dynamically loaded at runtime.

Default: 'static' code generation.

-staticloader Prefix generated functions with the 'static' scope modifier.

Default: don't write any scope modifier prefix.

-unref Print out unreferenced function and reason codes.

-write Actually (over)write the generated code to the header and C source files as assigned to each library through the config

file.

Default: don't write.

-help / -h / -? / --help Show this help text.

... Additional arguments are added to the file list to scan, assuming '-recurse' was NOT specified on the command line.

EOF

```
exit 1;
```

```
} else {
```

```
last;
```

```
}
```

```
}
```

```
if($recurse) {
```

```
@source = ( <crypto/*.c>, <crypto/*/*.c>, <ssl/*.c>, <ssl/*/*.c> )
```

```
} else {
```

```

@source = @ARGV;
}

# Read in the config file

open(IN, "<$config") || die "Can't open config file $config";

# Parse config file

while(<IN>)
{
if(/^\s+(\S+)\s+(\S+)\s+(\S+)/) {
    $hinc{$1} = $2;
    $libinc{$2} = $1;
    $cskip{$3} = $1;
    if($3 ne "NONE") {
        $csrc{$1} = $3;
        $fmax{$1} = 100;
        $rmax{$1} = 100;
        $fassigned{$1} = ":";
        $rassigned{$1} = ":";
        $fnew{$1} = 0;
        $rnew{$1} = 0;
    }
} elsif (/^F\s+(\S+)/) {
# Add extra function with $1
} elsif (/^R\s+(\S+)\s+(\S+)/) {
    $rextra{$1} = $2;
    $rcodes{$1} = $2;
}
}

close IN;

# Scan each header file in turn and make a list
of error codes
# and function names

while (($hdr, $lib) = each %libinc)
{
next if($hdr eq "NONE");
print STDERR "Scanning header file $hdr\n" if $debug;
my $line = "", $def= "", $linenr = 0, $gotfile = 0, $cpp = 0;
if (open(IN, "<$hdr")) {
    $gotfile = 1;
    while(<IN>) {
        $linenr++;
        print STDERR "line: $linenr\r" if $debug;
    }
}
}

```

```

last if(/BEGIN\s+ERROR\s+CODES/);
if ($line ne "") {
    $_ = $line . $_;
    $line = "";
}

if (/^\$/) {
    $line = $_;
    next;
}

if (/^\/) {
    if (not /^*\/) { # multiline comment...
        $line = $_; # ... just accumulate
        next;
    } else {
        s/^*.*?\/*//gs; # wipe it
    }
}

if ($cpp) {
    $cpp++ if /^#\s*if/;
    $cpp-- if /^#\s*endif/;
    next;
}
$cpp = 1 if /^#\s*ifdef.*cplusplus/; # skip "C" declaration

next if (/^\#/);          # skip preprocessor directives

s/{[^{}]*}//gs;         # ignore {} blocks

if (/^{\|\/) { # Add a } so editor works...

$line = $_;
} else {
    $def .= $_;
}
}

print STDERR "          \r" if $debug;
$defnr = 0;
# Delete any DECLARE_ macros
$def =~ s/DECLARE_\w+(\[w,s\]+)///gs;
foreach (split /;/, $def) {
    $defnr++;
    print STDERR "def: $defnr\r" if $debug;
}

```

```

# The goal is to collect function names from function declarations.

s/^[^n\s]*//g;
s/[\n\s]*$/g;

# Skip over recognized non-function declarations
next if(/typedef\W/ or /DECLARE_STACK_OF/ or /TYPEDEF_.*_OF/);

# Remove STACK_OF(foo)
s/STACK_OF(\w+)/void/;

# Reduce argument lists to empty ()
# fold round brackets recursively: (t(*v)(t),t) -> (t{}{}),t) -> {}
while(/(\.*/s) {
s/([^\(\)]+)\{ \} /g;
s/(\s*\s*\s*(\w+)\s*\{ \} \s*)/$1/g; #(*f{ }) -> f
}
# pretend as we didn't use curly braces: {} -> ()
s/{ \} / /g;

if (/(\w+)\s*(\().*/s) { # first token prior [first] () is
my $name = $1; # a function name!
$name
=~ tr/[a-z]/[A-Z]/;
$ftrans{$name} = $1;
} elsif (/[\(\)]/ and not (/=/)) {
print STDERR "Header $hdr: cannot parse: $_;\n";
}
}

print STDERR "          \r" if $debug;

next if $reindex;

# Scan function and reason codes and store them: keep a note of the
# maximum code used.

if ($gotfile) {
while(<IN>) {
if (/^#\s*define\s+(\S+)\s+(\S+)/) {
$name = $1;
$code = $2;
next if $name =~ /^${lib}err/;
unless($name =~ /^${lib}_(RF)_(\w+)\s/) {
print STDERR "Invalid error code $name\n";
next;
}
}
}

```

```

if($1 eq "R") {
    $codes{$name} = $code;
    if ($rassigned{$lib} =~ /:$code:/) {
        print STDERR "!! ERROR: $lib reason code $code assigned twice (collision at $name)\n";
        ++$serrcount;
    }
    $rassigned{$lib} .= "$code:";
    if(!(exists $rextra{$name}) &&
        ($code > $rmax{$lib})) {
        $rmax{$lib} = $code;
    }
} else {
    if ($fassigned{$lib} =~ /:$code:/) {
        print STDERR "!! ERROR: $lib function
code $code assigned twice (collision at $name)\n";
        ++$serrcount;
    }
    $fassigned{$lib} .= "$code:";
    if($code > $fmax{$lib}) {
        $fmax{$lib} = $code;
    }
    $codes{$name} = $code;
}
}
}
}

if ($debug) {
    if (defined($fmax{$lib})) {
        print STDERR "Max function code fmax" . "{" . "$lib" . "} = $fmax{$lib}\n";
        $fassigned{$lib} =~ m/^(.*):$/;
        @fassigned = sort {$a <=> $b} split(":", $1);
        print STDERR " @fassigned\n";
    }
    if (defined($rmax{$lib})) {
        print STDERR "Max reason code rmax" . "{" . "$lib" . "} = $rmax{$lib}\n";
        $rassigned{$lib} =~ m/^(.*):$/;
        @rassigned = sort {$a <=> $b} split(":", $1);
        print STDERR " @rassigned\n";
    }
}

if ($lib eq "SSL") {
    if ($rmax{$lib} >= 1000) {
        print STDERR "!! ERROR: SSL error codes 1000+ are reserved for alerts.\n";
        print STDERR "!! Any new alerts must be added to $config.\n";
        ++$serrcount;
        print STDERR "\n";
    }
}

```

```

}
}
close IN;
}

# Scan each C source file and look for
function and reason codes
# This is done by looking for strings that "look like" function or
# reason codes: basically anything consisting of all upper case and
# numerics which has _F_ or _R_ in it and which has the name of an
# error library at the start. This seems to work fine except for the
# oddly named structure BIO_F_CTX which needs to be ignored.
# If a code doesn't exist in list compiled from headers then mark it
# with the value "X" as a place holder to give it a value later.
# Store all function and reason codes found in %ufcodes and %urcodes
# so all those unreferenced can be printed out.

foreach $file (@source) {
# Don't parse the error source file.
next if exists $cskip{$file};
print STDERR "File loaded: ".$file."r" if $debug;
open(IN, "<$file") || die "Can't open source file $file\n";
my $func;
my $linenr = 0;
while(<IN>) {
# skip obsoleted source files entirely!
last if(/^#error\s+obsolete/);
$linenr++;
if (!/;/ && /^[\s]*([a-zA-Z_][\s]*)?([A-Za-z_0-9]+)\.(D,|$)/)
{
/^[^()]*\([^()]*\^[^()]*\)*\(/;
$1
=~ /[A-Za-z_0-9]*$/;
$func = $1;
}

if(/((([A-Z0-9]+)_F_([A-Z0-9_]+)))/) {
next unless exists $src{$2};
next if($1 eq "BIO_F_BUFFER_CTX");
$ufcodes{$1} = 1;
if(!exists $fcodes{$1}) {
$fcodes{$1} = "X";
$fnew{$2}++;
}
$ftrans{$3} = $func unless exists $ftrans{$3};
if (uc $func ne $3) {
print STDERR "ERROR: mismatch $file:$linenr $func:$3\n";
}
}
}

```

```

        $errcount++;
    }
    print STDERR "Function: $1\t= $fcodes{$1} (lib: $2, name: $3)\n" if $debug;
}
if(/((([A-Z0-9]+)_R_[A-Z0-9_]+)/) {
    next unless exists $src{$2};
    $rcodes{$1} = 1;
    if(!exists $rcodes{$1}) {
        $rcodes{$1} = "X";
        $new{$2}++;
    }
    print STDERR "Reason: $1\t= $rcodes{$1} (lib: $2)\n" if $debug;
}
}
close IN;
}
print STDERR "                \n" if $debug;

```

# Now process each library in turn.

```

foreach $lib (keys %csrc)
{
    my $hfile = $hinc{$lib};
    my
    $cfile = $csrc{$lib};
    if(!$fnew{$lib} && !$rnew{$lib}) {
        next unless $rebuild;
    } else {
        print STDERR "$lib:\t\t$fnew{$lib} New Functions,";
        print STDERR " $rnew{$lib} New Reasons.\n";
        next unless $dowrite;
    }
}

```

# If we get here then we have some new error codes so we  
# need to rebuild the header file and C file.

# Make a sorted list of error and reason codes for later use.

```

my @function = sort grep(/^\${lib}_/,keys %fcodes);
my @reasons = sort grep(/^\${lib}_/,keys %rcodes);

```

# Rewrite the header file

```

$cpp = 0;
$plusplus = 0;
if (open(IN, "<$hfile")) {
    # Copy across the old file
    while(<IN>) {

```



```

$plusplus = $cpp if /^#.*ifndef.*cplusplus/;
$cpp++ if /^#\s*if/;
$cpp-- if /^#\s*endif/;
push @out, $_;
last if (/BEGIN ERROR CODES/);
}
close IN;
} else {
    $cpp = 1;
    $plusplus = 1;
    push @out,
    "/*\n",
    " * Copyright 1995-$YEAR The OpenSSL Project Authors. All Rights Reserved.\n",
    " *\n",
    " * Licensed under the OpenSSL
    license (the \"License\"). You may not use\n",
    " * this file except in compliance with the License. You can obtain a copy\n",
    " * in the file LICENSE in the source distribution or at\n",
    " * https://www.openssl.org/source/license.html\n",
    " *\n",
    "\n",
    "#ifndef HEADER_{lib}_ERR_H\n",
    "# define HEADER_{lib}_ERR_H\n",
    "\n",
    "# ifdef __cplusplus\n",
    "extern \"C\" {\n",
    "# endif\n",
    "\n",
    "/* BEGIN ERROR CODES *\n",
    }
open (OUT, ">$hfile") || die "Can't Open File $hfile for writing\n";

print OUT @out;
undef @out;
print OUT <<"EOF";
/*
 * The following lines are auto generated by the script mkerr.pl. Any changes
 * made after this point may be overwritten when the script is next run.
 */

EOF
if($static) {
    print OUT <<"EOF";
    ${staticloader}int ERR_load_{lib}_strings(void);

EOF
} else {
    print OUT <<"EOF";

```

```

${staticloader}int ERR_load_${lib}_strings(void);
${staticloader}void ERR_unload_${lib}_strings(void);
${staticloader}void ERR_${lib}_error(int function, int reason, char
*file, int line);
# define ${lib}err(f,r) ERR_${lib}_error((f),(r),OPENSSL_FILE,OPENSSL_LINE)

```

```

EOF
}
print OUT <<"EOF";
/* Error codes for the $lib functions. */

```

```

/* Function codes. */

```

```

EOF

foreach $i (@function) {
  $z=48 - length($i);
  if($fcodes{$i} eq "X") {
    $fassigned{$lib} =~ m/^[[:^:]]*/;
    $findcode = $1;
    if (!defined($findcode)) {
      $findcode = $fmax{$lib};
    }
    while ($fassigned{$lib} =~ m/:$findcode:/) {
      $findcode++;
    }
    $fcodes{$i} = $findcode;
    $fassigned{$lib} .= "$findcode:";
    print STDERR "New Function code $i\n" if $debug;
  }
  printf OUT "# define $i%s $fcodes{$i}\n", " " x $z;
}

```

```

print OUT "\n/* Reason codes. *\n";

```

```

foreach $i (@reasons) {
  $z=48 - length($i);
  if($rcodes{$i} eq "X") {
    $rassigned{$lib} =~ m/^[[:^:]]*/;
    $findcode = $1;
    if (!defined($findcode)) {
      $findcode = $rmax{$lib};
    }
    while ($rassigned{$lib} =~ m/:$findcode:/) {
      $findcode++;
    }
    $rcodes{$i} = $findcode;
    $rassigned{$lib} .= "$findcode:";
  }
  print

```

```

STDERR "New Reason code  $i\n" if $debug;
}
printf OUT "# define $i%s $rcodes{$i}\n", " x $z;
}
print OUT <<"EOF";

EOF
do {
    if ($plusplus == $cpp) {
        print OUT "#, " "x$cpp, "ifdef __cplusplus\n";
        print OUT "}\n";
        print OUT "#, " "x$cpp, "endif\n";
    }
    if ($cpp-- > 0) {
        print OUT "#, " "x$cpp, "endif\n";
    }
} while ($cpp);
close OUT;

# Rewrite the C source file containing the error details.

# First, read any existing reason string definitions:
my %err_reason_strings;
if (open(IN,"<$file")) {
    my $line = "";
    while (<IN>) {
        s|\R$||; # Better chomp
        $_ = $line . $_;
        $line = "";
        if (/({ERR_(FUNC|REASON)}\()/) {
            if (/(\b${lib}_R_\w*)\b.*\("(*)"/) {
                $err_reason_strings{$1} = $2;
            } elsif (/(\b${lib}_F_\w*)\b.*\("(*)"/) {
                if (!exists $ftrans{$1} && ($1 ne $2)) {
                    print STDERR "WARNING: Mismatched function string $2\n";
                    $ftrans{$1} = $2;
                }
            } else {
                $line = $_;
            }
        }
    }
    close(IN);
}

my

```

```

$hincf;
if($static) {
    $hincf = $hfile;
    $hincf =~ s|.*include/||;
    if ($hincf =~ m|^openssl/) {
        $hincf = "<{$hincf}>";
    } else {
        $hincf = "\"{$hincf}\"";
    }
} else {
    $hincf = "\"$hfile\"";
}

# If static we know the error code at compile time so use it
# in error definitions.

if ($static)
{
    $pack_errcode = "ERR_LIB_{$lib}";
    $load_errcode = "0";
}
else
{
    $pack_errcode = "0";
    $load_errcode = "ERR_LIB_{$lib}";
}

open (OUT,">$cfile") || die "Can't open $cfile for writing";

print OUT <<"EOF";
/*
* Generated by util/mkerr.pl DO NOT EDIT
* Copyright 1995-$YEAR The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the OpenSSL license (the "License"). You may not use
* this file except in compliance with the License. You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#include <stdio.h>
#include <openssl/err.h>
#include $hincf

/*
BEGIN ERROR CODES */
#endif OPENSSL_NO_ERR

```

```

# define ERR_FUNC(func) ERR_PACK($pack_errcode,func,0)
# define ERR_REASON(reason) ERR_PACK($pack_errcode,0,reason)

static ERR_STRING_DATA ${lib}_str_funcs[] = {
EOF
# Add each function code: if a function name is found then use it.
foreach $i (@function) {
  my $fn;
  $i =~ /^${lib}_F_(\S+)/;
  $fn = $1;
  if(exists $ftrans{$fn}) {
    $fn = $ftrans{$fn};
  }
# print OUT "{ERR_PACK($pack_errcode,$i,0),\t"$fn"}\n";
if(length($i) + length($fn) > 57) {
  print OUT "  {ERR_FUNC($i),\n  \"$fn"}\n";
} else {
  print OUT "  {ERR_FUNC($i), \"$fn"}\n";
}
}
print OUT <<"EOF";
  {0, NULL}
};

static ERR_STRING_DATA ${lib}_str_reasons[] = {
EOF
# Add each reason code.
foreach $i (@reasons) {
  my $rn;
  my $rstr = "ERR_REASON($i)";
  if (exists $err_reason_strings{$i}) {
    $rn = $err_reason_strings{$i};
  } else {
    $i =~ /^${lib}_R_(\S+)/;
    $rn = $1;
    $rn =~ tr/_[A-Z]/ [a-z]/;
  }
if(length($i) + length($rn)
> 55) {
  print OUT "  ${rstr},\n  \"$rn"}\n";
} else {
  print OUT "  ${rstr}, \"$rn"}\n";
}
}
if($static) {
print OUT <<"EOF";
  {0, NULL}
}

```

```

};

#endif

${staticloader}int ERR_load_${lib}_strings(void)
{
#ifdef OPENSSSL_NO_ERR

    if (ERR_func_error_string(${lib}_str_funcs[0].error) == NULL) {
        ERR_load_strings($load_errcode, ${lib}_str_funcs);
        ERR_load_strings($load_errcode, ${lib}_str_reasons);
    }
#endif
    return 1;
}
EOF
} else {
    print OUT <<"EOF";
    {0, NULL}
};

#endif

#ifdef ${lib}_LIB_NAME
static ERR_STRING_DATA ${lib}_lib_name[] = {
    {0, ${lib}_LIB_NAME},
    {0, NULL}
};
#endif

static int ${lib}_lib_error_code = 0;
static int ${lib}_error_init = 1;

${staticloader}int ERR_load_${lib}_strings(void)
{
    if (${lib}_lib_error_code == 0)
        ${lib}_lib_error_code = ERR_get_next_error_library();

    if (${lib}_error_init) {
        ${lib}_error_init = 0;
#ifdef OPENSSSL_NO_ERR
        ERR_load_strings(${lib}_lib_error_code,
            ${lib}_str_funcs);
        ERR_load_strings(${lib}_lib_error_code, ${lib}_str_reasons);
#endif
    }

#ifdef ${lib}_LIB_NAME
    ${lib}_lib_name->error = ERR_PACK(${lib}_lib_error_code, 0, 0);
#endif
}

```

```

    ERR_load_strings(0, ${lib}_lib_name);
#endif
}
return 1;
}

${staticloader}void ERR_unload_${lib}_strings(void)
{
    if (${lib}_error_init == 0) {
#ifdef OPENSSSL_NO_ERR
        ERR_unload_strings(${lib}_lib_error_code, ${lib}_str_funcs);
        ERR_unload_strings(${lib}_lib_error_code, ${lib}_str_reasons);
#endif
}

#ifdef ${lib}_LIB_NAME
    ERR_unload_strings(0, ${lib}_lib_name);
#endif
    ${lib}_error_init = 1;
}
}

${staticloader}void ERR_${lib}_error(int function, int reason, char *file, int line)
{
    if (${lib}_lib_error_code == 0)
        ${lib}_lib_error_code = ERR_get_next_error_library();
    ERR_PUT_error(${lib}_lib_error_code, function, reason, file, line);
}
EOF
}

close OUT;
undef %err_reason_strings;
}

if($debug && %notrans) {
    print STDERR "The
    following function codes were not translated:\n";
    foreach(sort keys %notrans)
    {
        print STDERR "$_\n";
    }
}

# Make a list of unreferenced function and reason codes

foreach (keys %fcodes) {
    push (@funref, $_) unless exists $ufcodes{$_};
}

```

```

}

foreach (keys %rcodes) {
  push (@runref, $_) unless exists $rcodes{$_};
}

if($sunref && @funref) {
  print STDERR "The following function codes were not referenced:\n";
  foreach(sort @funref)
  {
    print STDERR "$_\n";
  }
}

if($sunref && @runref) {
  print STDERR "The following reason codes were not referenced:\n";
  foreach(sort @runref)
  {
    print STDERR "$_\n";
  }
}

if($errcount) {
  print STDERR "There were errors, failing...\n\n";
  exit $errcount;
}

```

Found in path(s):

```

* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86ccissosl-fom-7-0a-201904062312-tar-gz/cissosl-fom-7.0a.201904062312/util/mkerr.pl

```

No license file was found, but licenses were detected in source scan.

```

/* =====

```

```

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```

```

*

```

```

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*

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*

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```

# This is just a quick script to scan for cases where the 'error'

```

```

# function name in a XXXerr() macro is wrong.
#
# Run in the top level by going
# perl util/ck_errf.pl */*.c */*.c
#

my $err_strict = 0;
my $bad = 0;

foreach $file (@ARGV)
{
if ($file eq "-strict")
{
$err_strict = 1;
next;
}
open(IN,"<$file") || die "unable to open $file\n";
$func="";
while (<IN>)
{
last if(/^#error\s+obsolete/);
if (!/;/ && /^[\s]*([a-zA-Z_][\s]*)?([A-Za-z_0-9]+)\.(.*)$/)
{
/^[^()]*\([^()]*\)[^()]*\)/;
$1 =~ /([A-Za-z_0-9]*)$/;
$func = $1;
$func =~
tr/A-Z/a-z/;
}
if (/([A-Z0-9]+)err\([^,]+\)/ && !/ckerr_ignore/)
{
$errlib=$1;
$n=$2;

if ($func eq "")
{ print "$file:.$:???:$n\n"; $bad = 1; next; }

if ($n !~ /^[^_]+_F_(.+)$/)
{
# print "check -$file:.$:$func:$n\n";
next;
}
$lib=$1;
$n=$2;

if ($lib ne $errlib)
{ print "$file:.$:$func:$n [${errlib}]err\n"; $bad = 1; next; }

```

```

$N =~ tr/A-Z/a-z/;
if (($N ne $func) && ($errlib ne "SYS"))
{ print "$file:.$func:$N\n"; $bad = 1; next; }
# print "$func:$1\n";
}
}
close(IN);
}

```

```

if ($bad && $err_strict)
{
print STDERR "FATAL: error discrepancy\n";
exit 1;
}

```

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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-
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/*-----

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```

* fips_test_ig95.c - Unit test for IG 9.5 support

```

```

*

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\* fips/kdf/fips\_kdf\_tls.c - TLS KDF vector tests

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\* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/bn/bn\_asm.c

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\* crypto/sha/asm/sha256-octeon.c - Cavium Octeon specific hardware assist

\* functionality that is to reside within the FIPS canister.

\*

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tlhelp32.h - Include file for Tool help functions.

Written by Mumit Khan <khan@nanotech.wisc.edu>

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Found in path(s):

```

* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/constant_time_locl.h

```

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```

/*-----
* fips/kdf/fips_kdf_ikev2.c - IKEV2 KDF vector tests
*
* March 2015
*
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*-----
*/

```

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```

* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/kdf/fips_kdf_ikev2.c

```

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```

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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-

```

0a-201904062312-tar-gz/ciscoss-l-fom-7.0a.201904062312/iOS/FIPS/ios-fips-test-app-tar-gz/HelloWorld2/HelloWorld2/ViewController.swift

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```
/*-----  
* fips/kdf/fips_kdf_snmp.c - SNMP KDF vector tests  
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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/engine/eng_int.h

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* /opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-
0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/dsa/fips_dsa_sign.c
*
/opt/cola/permits/1161903777_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-
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/* -----  
* crypto/aes/asm/aes_cbc-octeon.c - Cavium Octeon specific hardware assist  
* functionality that is to reside within the FIPS canister.  
*  
* January 2013  
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0a-201904062312-tar-gz/cissosl-fom-7.0a.201904062312/crypto/aes/asm/aes_cbc-octeon.c
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```

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```

/*-----
* kdf/kdf_snmp.c - Key Derivation Function for SNMP
*
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```

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```

/*-----
* include/cavium/cvmx-aes.h - Cavium Octeon specific hardware assist
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\* crypto/bn/asm/modexp-octeon.c - Cavium Octeon specific hardware assist  
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\* crypto/des/asm/des\_enc-octeon.c - Cavium Octeon specific hardware assist  
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```

- \* The elliptic curve binary polynomial software is originally written by
- \* Sheueling Chang Shantz and Douglas Stebila of Sun Microsystems Laboratories.
- \*
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\* =====  
\*

\* This product includes cryptographic software written by Eric Young  
\* (eay@cryptsoft.com). This product includes software written by Tim  
\* Hudson (tjh@cryptsoft.com).  
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\*/

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/\* -----  
\* crypto/sha/asm/sha512-octeon.c - Cavium Octeon specific hardware assist  
\* functionality that is to reside within the FIPS canister.  
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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/sha/asm/sha512-octeon.c  
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/\* -----  
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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/des/des.h  
\* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-  
0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/objects/obj\_dat.h  
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0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/des/des\_locl.h

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 \* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/sha/fips\_shatest.c  
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 \* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/fips/rsa/fips\_rsastest.c  
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 \* /opt/cola/permits/1161903777\_1631085881.93/0/6a07d800a05598c1f8a491722522d86864fde86cciscossl-fom-7-0a-201904062312-tar-gz/ciscossl-fom-7.0a.201904062312/crypto/rsa/rsa\_x931.c  
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* crypto/aes/asm/aes-octeon.c - Cavium Octeon specific hardware assist  
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\* fips/kdf/fips\_kdf\_srtp.c - SRTP KDF vector tests

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\* kdf/kdf\_srtp.c - Key Derivation Function for SRTP

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## 1.416 systemd-bootchart

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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 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

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a) Accompany

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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.

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## 1.421 glib 1:2.60.7-r0

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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.

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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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## 1.427 bash 5.0-r0

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Version 3, 29 June 2007

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---

\*  
\* stdio.c  
\* by Mark Gates <mgates@nlanr.net>  
\* and Ajay Tirumalla <tirumala@ncsa.uiuc.edu>  
\* -----  
\* input and output numbers, converting with kilo, mega, giga  
\* ----- \*/

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```
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```

```
* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/docs/source/license.rst
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```

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* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_univ.py
```

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* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/univ.py
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* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/type/test_constraint.py
```

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* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/compat/test_octets.py
```

```
* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/ber/eoo.py
```

```
* /opt/cola/permits/1155340545_1618954533.65/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/tagmap.py
```

```
*
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\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/native/decoder.py

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\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/type/base.py

\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/der/test\_encoder.py

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* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/ber/__main__.py
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* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/debug.py
* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/tests/codec/native/__main__.py
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* /opt/cola/permits/1155340545_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/pyasn1/codec/cer/encoder.py
```

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## ASN.1 library for Python

=====

```
.. toctree::
   :maxdepth: 1
```

### Abstract Syntax Notation One (ASN.1)

<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>\_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>>\_ library implements ASN.1 support in pure-Python.

### What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions` <<https://news.ycombinator.com/item?id=8871453>>\_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol->

buffers/>`\_

or `FlatBuffers <<https://google.github.io/flatbuffers/>>`\_, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

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Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>>`\_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

-----

```
.. toctree::  
  :maxdepth: 2
```

/pyasn1/contents

## Use case

-----

```
.. toctree::  
  :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::  
  :maxdepth: 2
```

/download

## Changes

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All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
  :maxdepth: 1
```

/changelog

## License

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The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
  :maxdepth: 2
```



/license

## Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`  
mailing list archive.

## Books on ASN.1

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The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards`  
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_`  
by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

\* /opt/cola/permits/1155340545\_1618954533.65/0/etingof-pyasn1-v0-4-7-0-g771aa24-1-tar-gz/etingof-pyasn1-771aa24/docs/source/contents.rst

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## ASN.1 library for Python

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[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)

[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)

[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)

[![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1) [![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

## Features

-----

\*

- Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures.  
For example, the following ASN.1 data structure:

```
``bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
``
```

Could be expressed in pyasn1 like this:

```
``python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
``
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
``python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

```
>>>
'''
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
'''
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
'''
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
'''
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of

Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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```
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```

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# 1.430 open-vm-tools 11.0.1-r0

## 1.430.1 Available under license :

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- a) Accompany the work with the complete corresponding machine-readable

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base64.c -- routines to encode/decode base64 data

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- Scott Tsai ([scott.tw@gmail.com](mailto:scott.tw@gmail.com)) suggested better UUCP\_LOCK\_DIR definition
- Josh Handley (<https://github.com/jhandley>) added support for line-editing, autocompletion and history when entering "send" and "receive" file names. Editing support uses the "linenoise" library. See: <https://github.com/jhandley/picocom>
- Salvatore Sanfilippo (<https://github.com/antirez>) is the author of the linenoise line-editing library. See: <https://github.com/antirez/linenoise>
- From Cody Schafer's (<https://github.com/jmesmon>) fork originated the idea to add custom baudrate support to picocom. See:



<https://github.com/jmesmon/picocom>

- From Paul Chakravarti's (<https://github.com/paulchakravarti>) fork originated the idea to add support for disabling the send- and receive-file commands, and for not using the shell when executing external programs (to avoid shell escapes). See: <https://github.com/paulchakravarti/picocom-noexec>
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- Joe Merten (<https://github.com/JoeMerten>) contributed the --lower-rts and --lower-dtr options, custom baudrate support for FreeBSD and macOS, the --logfile option implementation, and several bug-fixes.
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## 1.437 nvme-cli 1.9+git0+977e7d4cf5-r0

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## 1.438 bash4 4.2-r6

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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. :-)

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

Flags: 10

Return-Path: spcedt@armory.com

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id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@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 spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@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/~spcedt/>

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@deepthought.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
```

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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>)

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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@iinet.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).

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# 1.439 gevent 1.4.0-r0

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greentest/2.7  
greentest/2.7.8



greentest/2.7pypy

greentest/3.3

greentest/3.4

greentest/3.5

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gevent/libuv/\_corecffi\_source.c  
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Version 2.1, February 1999

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# 1.442 python3-asn1crypto 1.0.1-r0

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## 1.445 pytz 2019.2-r0

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# 1.447 urllib3 1.25.8-r0

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# Contributions to the urllib3 project

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\* HTTPS patch (which inspired HTTPSConnectionPool)

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\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

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\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

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\* Bugfixes, Improvements and Test

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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
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- \* Sune Kirkeby <mig@ibofobi.dk>
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- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields

- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
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- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>

- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
  - \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
  - \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
  - \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
  - \* App Engine environment tests.
  - \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
  - \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
  - \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
  - \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
  - \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  - \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
  - \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
  - \* Bugfix to ca\_cert file paths.



- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
- \* Lazily load idna package
  
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
  - \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
  - \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  - \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
  - \* Improve contribution guide
  - \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
  - \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
  - \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
  - \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
  - \* Add ability to handle multiple Content-Encodings

- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

# 1.448 pyudev 0.21.0-r0

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## 1.449 pyopenssl 19.1.0-r0

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## 1.451 pyang 2.2.1-r0

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```
from setuptools import setup
```

```
with open("README.rst") as f:  
    readme = f.read()
```

```
setup(  
    version="1.0.9",  
    name="pretend",  
    description="A library for stubbing in Python",  
    long_description=readme,  
    author="Alex Gaynor",  
    author_email="alex.gaynor@gmail.com",
```

```

py_modules=["pretend"],
url="https://github.com/alex/pretend",
license="BSD",
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
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    "Topic :: Software Development :: Testing",
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    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
]
)

```

Found in path(s):

```
* /opt/cola/permits/1184058624_1631086010.37/0/ceb14bc6169dc46d3eae2d01888b9810dbec2151pretend-1-0-9-tar-gz/pretend-1.0.9/setup.py
```

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Found in path(s):

```
* /opt/cola/permits/1184058624_1631086010.37/0/ceb14bc6169dc46d3eae2d01888b9810dbec2151pretend-1-0-9-tar-gz/pretend-1.0.9/LICENSE.rst
```

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Metadata-Version: 1.1

Name: pretend

Version: 1.0.9

Summary: A library for stubbing in Python

Home-page: <https://github.com/alex/pretend>

Author: Alex Gaynor

Author-email: [alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)

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Description: pretend

=====  
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Pretend is a library to make stubbing with Python easier.

What is stubbing?

-----

Stubbing is a technique for writing tests. You may hear the term mixed up with mocks, fakes, or doubles. Basically a stub is an object that returns pre-canned responses, rather than doing any computation.

Martin Fowler does a good job explaining the terms in his ``Mocks Aren't Stubs`_` article.

.. ``Mocks Aren't Stubs``: <http://martinfowler.com/articles/mocksArentStubs.html>

How do I install ``pretend``?

-----

It's easy with ``pip``!

```
.. code:: bash
```

```
$ pip install pretend
```

How do I use ``pretend``?



-----  
It's easy, the `stub` function makes it easy to create a stub:

```
.. code:: pycon
```

```
>>> from pretend import stub
>>> x = stub(country_code="US")
>>> some_function(x)
```

Here `x` will be an object with a single attribute `country_code` which has the value `"US"`. Unlike mocks, `x` will not respond to any other attribute or methods, nor does it have any methods for making assertions about what you accessed.

If you want to add a method to the stub, simply provide a function to it:

```
.. code:: pycon
```

```
>>> from pretend import
stub
>>> x = stub(country_code=lambda: "US")
>>> x.country_code()
'US'
```

It's important to note that functions on stubs *do not* take a `self` argument, this is because stubs should be returning pre-canned values, not doing computations.

Exceptions with `pretend`

-----  
Sometimes a method you want to stub doesn't return a value, but instead raises an exception. To make this easy, `pretend` provides a helper function, `raiser`, it can be used like so:

```
.. code:: pycon
```

```
>>> from pretend import stub, raiser
>>> x = stub(func=raiser(ValueError))
>>> x.func()
```

```
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "pretend.py", line 74, in inner
    raise exc
ValueError
```

Why is

stubbing better?

-----

Ideally stubbing tests how your system responds to a particular input, rather than which API is used. Stubbing still requires you to write tests that check the results of a computation, rather than looking for side effects. This doesn't always work though, so you do sometimes still need mocking (e.g. sometimes you really want to check for a side effect.)

How do I get my stub into place?

-----

If you come from other mocking libraries you're probably used to a `patch` method to put a mock in place. `pretend` doesn't include anything like this, a) we believe it's better, where possible, to pass stubs as arguments rather than monkey patch them into place, b) we believe that when you do need to monkey patch something into place you should use something provided by your testing tool.

`py.test` includes `such a tool`.

.. `such a tool`: <http://pytest.org/latest/monkeypatch.html>

What if I really need to record the calls?

-----

If you really really need to, `pretend` includes a `call_recorder` utility:

.. code:: pycon

```
>>> from pretend import call_recorder, call
>>> f = call_recorder(lambda a: a + 2)
>>> f(3)
5
>>> assert f.calls == [call(3)]
```

Who wrote this?

-----

`pretend` is by Alex Gaynor, who was just tired of not having a good stubbing tool for Python. The name is from Idan Gazit.

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Topic

:: Software Development :: Testing  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3.2  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6

Found in path(s):

\* /opt/cola/permits/1184058624\_1631086010.37/0/ceb14bc6169dc46d3eae2d01888b9810dbec2151pretend-1-0-9-tar-gz/pretend-1.0.9/PKG-INFO  
\* /opt/cola/permits/1184058624\_1631086010.37/0/ceb14bc6169dc46d3eae2d01888b9810dbec2151pretend-1-0-9-tar-gz/pretend-1.0.9/pretend.egg-info/PKG-INFO

## 1.456 pypellchecker 0.5.4-r0

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## 1.457 psocks 1.7.1-r0

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## 1.458 more-iterertools 7.2.0-r0

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## 1.461 iso8601 0.1.12-r0

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## 1.462 bcrypt 3.1.4-r0

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## 1.463 pyparsing 2.4.2-r0

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## 1.465 pathlib 2.3.4-r0

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Metadata-Version: 1.1

Name: pathlib2

Version: 2.3.4

Summary: Object-oriented filesystem paths

Home-page: <https://github.com/mcmtroffaes/pathlib2>

Author: Matthias C. M. Troffaes

Author-email: [matthias.troffaes@gmail.com](mailto:matthias.troffaes@gmail.com)

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Description: The `old pathlib <<https://bitbucket.org/pitrou/pathlib>>` \_

module on bitbucket is in bugfix-only mode.

The goal of pathlib2 is to provide a backport of

`standard pathlib <<http://docs.python.org/dev/library/pathlib.html>>` \_

module which tracks the standard library module,

so all the newest features of the standard pathlib can be

used also on older Python versions.

Download

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Standalone releases are available on PyPI:

<http://pypi.python.org/pypi/pathlib2/>

Development

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The main development takes place in the Python standard library:

see

the `Python developer's guide <<http://docs.python.org/devguide/>>` \_.

In particular, new features should be submitted to the

``Python bug tracker <http://bugs.python.org/>`_.`

Issues that occur in this backport, but that do not occur not in the standard Python pathlib module can be submitted on the ``pathlib2 bug tracker <https://github.com/mcmtrroffaes/pathlib2/issues>`_.`

## Documentation

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### Refer to the

``standard pathlib <http://docs.python.org/dev/library/pathlib.html>`_` documentation.

## Known Issues

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For historic reasons, pathlib2 still uses bytes to represent file paths internally. Unfortunately, on Windows with Python 2.7, the file system encoder (``mcbcs``) has only poor support for non-ascii characters, and can silently replace non-ascii characters without warning.

For example,

``u".encode(sys.getfilesystemencoding())`` results in ``????`` which is obviously completely useless.

Therefore, on Windows with Python 2.7, until this problem is fixed upstream, unfortunately you cannot rely on pathlib2 to support the full unicode range for filenames. See ``issue #56 <https://github.com/mcmtrroffaes/pathlib2/issues/56>`_` for more details.

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:target: <https://travis-ci.org/mcmtrroffaes/pathlib2>  
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.. |codecov| image:: <https://codecov.io/gh/mcmtrroffaes/pathlib2/branch/develop/graph/badge.svg>  
:target: <https://codecov.io/gh/mcmtrroffaes/pathlib2>

:alt: codecov

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3.4  
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\* /opt/cola/permits/1184058975\_1634899292.19/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/pathlib2.egg-info/PKG-INFO

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\* /opt/cola/permits/1184058975\_1634899292.19/0/pathlib2-2-3-4-1-tar-gz/pathlib2-2.3.4/pathlib2/\_\_init\_\_.py  
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```

The hypothetical commands `show w' and



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src/lxml/isoschematron/resources/xsl/RNG2Schtrn.xsl and

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## 1.468 pluggy 0.13.0-r0

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## 1.469 paramiko 2.7.2-r0

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## 1.471 idna 2.9-r0

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Metadata-Version: 1.2

Name: idna

Version: 2.9

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`. This is the latest version of the protocol and is sometimes referred to as "IDNA 2008".

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`\_).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

```
# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

Installation

-----

To install this library, you can use pip:

```
.. code-block:: bash
```

```
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash
```

```
$ python setup.py install
```



This library works with Python 2.7 and Python 3.4 or later.

## Usage

-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon

# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon

# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon

# Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

## Compatibility Mapping (UTS #46)

+++++

As described in `RFC 5895 <<http://tools.ietf.org/html/rfc5895>>`\_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing` <<http://unicode.org/reports/tr46/>>`, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as \*LATIN CAPITAL LETTER K\* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (ß) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
+++++
```

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the

new module name.

## Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is

illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

## Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

\* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

\* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

## Testing

-----

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>` \_.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language

:: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Programming Language :: Python :: 3.8

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1184059168\_1631085973.14/0/26888350af0fda89e0c284225da98f3aed5d4ba1idna-2-9-tar-gz/idna-2.9/idna.egg-info/PKG-INFO

\* /opt/cola/permits/1184059168\_1631085973.14/0/26888350af0fda89e0c284225da98f3aed5d4ba1idna-2-9-tar-gz/idna-2.9/PKG-INFO

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Found in path(s):

\* /opt/cola/permits/1184059168\_1631085973.14/0/26888350af0fda89e0c284225da98f3aed5d4ba1idna-2-9-tar-gz/idna-2.9/LICENSE.rst

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\*\*\*\*

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

\*\*\*\*

```

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }

```

```
setup(**arguments)
```

```
if __name__ == '__main__':  
    main()
```

Found in path(s):

```
* /opt/cola/permits/1184059168_1631085973.14/0/26888350af0fda89e0c284225da98f3aed5d4ba1idna-2-9-tar-gz/idna-2.9/setup.py
```

# 1.472 pytest 5.1.3-r0

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# 1.473 ply 3.11-r0

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# PLY (Python Lex-Yacc)                      Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1)

algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython.

It also seems to work with IronPython.

## Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

## Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

## Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

## Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```

# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS = r\+'
t_MINUS = r\-'
t_TIMES = r\*'
t_DIVIDE = r\/'
t_EQUALS = r\='
t_LPAREN = r\(
t_RPAREN = r\)
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence
rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),

```

```

('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN
expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

```

```
import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)
```

## Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

Found in path(s):

```
* /opt/cola/permits/1184059232_1631086158.54/0/c17572f5243280a80727ee866bc8c2639335192fply-3-11-tar-gz/ply-3.11/README.md
```

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Metadata-Version: 1.1

Name: ply

Version: 3.11

Summary: Python Lex & Yacc

Home-page: <http://www.dabeaz.com/ply/>

Author: David Beazley

Author-email: [dave@dabeaz.com](mailto:dave@dabeaz.com)

License: BSD

Description-Content-Type: UNKNOWN

Description:

PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that its implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.

It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python  
:: 2

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\* /opt/cola/permits/1184059232\_1631086158.54/0/c17572f5243280a80727ee866bc8c2639335192fply-3-11-tar-gz/ply-3.11/ply.egg-info/PKG-INFO

\* /opt/cola/permits/1184059232\_1631086158.54/0/c17572f5243280a80727ee866bc8c2639335192fply-3-11-tar-gz/ply-3.11/PKG-INFO

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\* /opt/cola/permits/1184059232\_1631086158.54/0/c17572f5243280a80727ee866bc8c2639335192fply-3-11-tar-gz/ply-3.11/ply/yacc.py

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## 1.474 pycparser 2.20-r0

### 1.474.1 Available under license :

pycparser -- A C parser in Python

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## 1.475 six 1.14.0-r0

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.477 wcwidth 0.1.7-r0

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# 1.478 bpftool 5.4.116-r0

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# 1.481 ncurses 6.1-7.20180224.el8

## 1.481.1 Available under license :

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## 1.482 iputils 20180629-6.el8

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/\*

\*-----

\* util\_ip.c -- miscellaneous ip specific utility routines

\*

\* Feb 2008, Hiral mehta

```
*
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*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/src/ip_util.c
```

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```
/*
*-----
* ipaddress_api.h
*
* Febuary 2004
*
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*-----
*/
```

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```
##
## Component "ip":
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##
```

syntax: 1.0.0

# meta-source files found within component 'ip'

group: generic

```
{
  reg:
    include/reg/ip_15_registry.reg
    include/reg/ip_registry.reg
}
```

# migrated from file: 'ip/src/src.mk'

group: top

```
{
  includes: $(IOS_SYSROOT)/ion/include $(COMPONENT_ROOT)/posix/include
```



```

# These diagnostic disables are temporary and must be removed
# after fixing the problems in the source code
if: compiler == gcc.c4.7
{
  cflags : -Wno-error=unused-but-set-variable -Wno-error=enum-compare
}
sub: ip_parser
{
  contains:
    src/ip_parser_linkpoints.c
}
sub: ip_registry
{
  contains:
    src/ip_registry.c
}
sub: ip_util
{
  contains:
    src/ip_util.c
}
}
# end of group: top

```

##

Found in path(s):

\* /opt/cola/permits/1210918082\_1633472805.7/0/ip-tar/ip/content.lst

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* ip\_parser\_linkpoints.c - IP related parser linkpoint definitions.

\*

\* April, 2005

\*

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\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210918082\_1633472805.7/0/ip-tar/ip/src/ip\_parser\_linkpoints.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

```
* ip_parser_macros.h - IP* macros moved out of
* sys/parser/macros.h
*
* November, 2004
*
* Copyright (c) 2004, 2009-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/include/ip_parser_macros.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* ip_util.h
*
* February 2005
*
* Copyright (c) 2005, 2009, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/include/ip_util.h
No license file was found, but licenses were detected in source scan.
```

# All rights reserved.

Found in path(s):

```
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/expl_path/src/src.mk
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/src/src.mk
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/expl_path/makefile
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/include/reg/ip_15_registry.reg
* /opt/cola/permits/1210918082_1633472805.7/0/ip-tar/ip/makefile
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* ip_15_registry.h -- Registration Points for IP_15 support
*
* August 2006, Krishna Kumar Maurya
*
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
```

- \* The file ip\_registry.reg has been re-factored into 44 different
- \* registries to address the 2G problem. The detail regarding the
- \* mapping of registries into services is available at
- \* /vob/ios.sys1/deprecated/sys/ip/ip\_registry\_map.txt
- \* For further detail regarding the re-factoring of registries,
- \* please mail in your queries to dolphins@cisco.com
- \*/

Found in path(s):

\* /opt/cola/permits/1210918082\_1633472805.7/0/ip-tar/ip/include/ip\_15\_registry.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* ip\_parser\_linkpoints.h - IP related parser linkpoint decls.

\*

\* April, 2005

\*

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\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210918082\_1633472805.7/0/ip-tar/ip/include/ip\_parser\_linkpoints.h

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# 1.485 device-mapper 8:1.02.175- 0.4.20201222gitb84a992.el8

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LZ4 Library

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: \*

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## 1.493 libdnf 0.55.0-1.el8

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```

Found in path(s):

```
*/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/nameser/ns_date.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/resolv/res_findzonecut.c
*/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/include/irp.h
*/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/resolv/res_debug.h
*/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/sco42/include/sys/un.h
*/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/include/isc/irpmarshall.h
```

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 */
```

Found in path(s):

```

* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/soa.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/timer_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/hmacmd5.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nothreads/mutex.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/gai_strerror.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/context.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/quota.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/offset.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/keytable.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/resource.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/fsaccess.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/forward.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/errno2result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/lwres_noop.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/lang.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nothreads/thread.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/fsaccess.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/offset.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/ondestroy.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/assert_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/stats.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/keyboard.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nothreads/include/isc/once.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/lwpacket.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nothreads/condition.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/stdio.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/entropy.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/keyboard.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/win32/bindevt/bindevt.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/ondestroy.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/hex.h

```

```

* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/errno2result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/lookup.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/ipv6.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/sdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/unistd.h
*
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/include/lwres/net.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/netdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/npaths.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/stats.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/stdio.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/formatcheck.h
No license file was found, but licenses were detected in source scan.

/*
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*

```

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*/
```

Found in path(s):

```
*/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/irp_gr.c
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```
* eventlib.em
```

```
/*
```

```
* Eventlib error message compiler input file
```

```
/*
```

```
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```

```
* All rights reserved
```

```
*/
```

```
/*
```

```
* The file basename is the facility name, the name is made
```

```
* uppercase. This file defines facility EVENTLIB
```

```
*/
```

```
module {
```

```
    description "EVENTLIB system messages";
```

```
}
```

```
errmsg HISTSUMM {
```

```
    severity err;
```

```
    category software;
```

```
    cdets_component iosxe-binos-utils;
```

```
format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
```

```
    arg {
```

```
        "int" dispatch_time "event dispatch time";
```

```
        "int" elapsed_time "event elapsed time";
```

```
        "int" hog_detected "event hog detected";
```

```
        "int" set_count "event set count since dispatch"
```

```
    }
```

```
    explanation
```

```
        "Eventlib historical summary for detected hog.";
```

```

        action
        "This event summary is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful
        to engineering. "
        "Save this summary message along with the HOG error. ";

        tac_details
            "Eventlib historical summary for detected hog.";
    }

errmsg HISTELEM {
    severity err;
    category software;
    cdets_component iosxe-binos-utils;

format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

    arg {
        "int" set_count "element set count";
        "char *" position_string "event call type";
        "char *" position_string "event condition";
        "int" set_time "element set time";
        "int" unset_time "element unset time";
        "int" hog_check "element hog check result";
        "int" caller "caller builtin return address";
        "char *" any_string "element callback render buffer";
    }
    explanation
        "Eventlib historical element for detected hog.";

        action
        "This event element is part of a CPUHOG or TIMEHOG error, "
        "providing diagnostic details useful to engineering. "
        "Save all element
        messages along with the HOG error. ";

        tac_details
            "Eventlib historical element for detected hog.";
    }

```

Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/eventlib.em

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#



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```

```
AC_REVISION($Revision: 1.1 $)
```

```
AC_INIT(resolv/herror.c)
```

```
AC_PREREQ(2.13)
```

```
AC_CONFIG_HEADER(config.h)
```

```
AC_CANONICAL_HOST
```

```
AC_PROG_MAKE_SET
```

```
AC_PROG_RANLIB
```

```
AC_PROG_INSTALL
```

```
AC_SUBST(STD_CINCLUDES)
```

```
AC_SUBST(STD_CDEFINES)
```

```
AC_SUBST(STD_CWARNINGS)
```

```
AC_SUBST(CCOPT)
```

```
AC_PATH_PROG(AR,
```

```
ar)
```

```
ARFLAGS="cruv"
```

```
AC_SUBST(AR)
```

```
AC_SUBST(ARFLAGS)
```

```
# The POSIX ln(1) program. Non-POSIX systems may substitute
```

```
# "copy" or something.
```

```
LN=ln
```

```
AC_SUBST(LN)
```

```
case "$AR" in
```

```
  "")
```

```
    AC_MSG_ERROR([
```

```
ar program not found. Please fix your PATH to include the directory in
which ar resides, or set AR in the environment with the full path to ar.
```

```
])
```

```

;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L"
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL,
  perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
  '${prefix}/include')
    includedir='${prefix}/bind/include'
  ;;
esac
case "$libdir" in
  '${prefix}/lib')
    libdir='${prefix}/bind/lib'
  ;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all
# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.

```

```

# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
    ;;
*)
    #
    # Not all systems have dirname.
    #
    changequote({, })
    ac_dir="`echo $INSTALL | sed 's%/[^\/*]%%'"
    changequote([, ])

    ac_prog="`echo
$INSTALL | sed 's%.*/%%'"
    test "$ac_dir" = "$ac_prog" && ac_dir=.
    test -d "$ac_dir" && ac_dir="`cd \"$ac_dir\" && pwd`"
    INSTALL="$ac_dir/$ac_prog"
    ;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
    CC="cc"
    ;;
*-solaris*)
        # Use Sun's cc if it is available, but watch
        # out for /usr/ucb/cc; it will never be the right
        # compiler to use.
        #
        # If setting CC here fails, the AC_PROG_CC done
        # below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
    test -z "$ac_dir" && ac_dir=.
case

```

```

"$ac_dir" in
/usr/ucb)
# exclude
;;
*)
if test -f "$ac_dir/cc"; then
  CC="$ac_dir/cc"
  break
fi
;;
esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
  CC="cc"
  ;;
mips-sgi-irix*)
  CC="cc"
  ;;
esac
fi

```

AC\_PROG\_CC

AC\_HEADER\_STDC

AC\_CHECK\_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC\_C\_CONST

AC\_C\_INLINE

AC\_TYPE\_SIZE\_T

AC\_HEADER\_TIME

#

# check if we need to #include sys/select.h explicitly

#

case \$ac\_cv\_header\_unistd\_h in

yes)

AC\_MSG\_CHECKING(if unistd.h defines fd\_set)

AC\_TRY\_COMPILE([

#include <unistd.h>],

[fd\_set read\_set; return (0);],

[AC\_MSG\_RESULT(yes)

ISC\_PLATFORM\_NEEDSYSELECTH="#undef ISC\_PLATFORM\_NEEDSYSELECTH"

],

```

[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
    ;;
no)
    AC_MSG_ERROR([need either working unistd.h or sys/select.h])
    ;;
esac
])
;;
no)
case ac_cv_header_sys_select_h
in
yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
    ;;
no)
    AC_MSG_ERROR([need either unistd.h or sys/select.h])
    ;;
esac
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
    ;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;
esac

```

```

AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ...],
want_irs_nis="$withval",
want_irs_nis="no")
case "$want_irs_nis" in
yes)
WANT_IRS_NIS="#define WANT_IRS_NIS 1"
WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
case "$want_irs_gr" in
yes)
WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
*)
WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
yes)
WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
*)
WANT_IRS_NISPW_OBJS="";;
esac
;;
*)
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJS=""
WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)
AC_SUBST(WANT_IRS_DBPW_OBJS)

```

```

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval",
use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;
no)

```

```

AC_MSG_RESULT(no)
use_threads=false
;;
*)
    AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case
"$host" in
    *-netbsd*)
        # NetBSD has multiple pthreads implementations. The
        # recommended one to use is "unproven-pthreads". The
        # older "mit-pthreads" may also work on some NetBSD
        # versions. The PTL2 thread library does not
        # currently work with bind9, but can be chosen with
        # the --with-ptl2 option for those who wish to
        # experiment with it.
        CC="gcc"
        AC_MSG_CHECKING(which NetBSD thread library to use)

        AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
        use_ptl2="$withval", use_ptl2="no")

        : ${LOCALBASE:=/usr/pkg}

        if test "X$use_ptl2" = "Xyes"
        then
            AC_MSG_RESULT(PTL2)
            AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
            CC=ptlgcc
        else
            if test ! -d $LOCALBASE/pthreads
            then
                AC_MSG_RESULT(none)
                use_threads=false
            fi

            if $use_threads
            then
                AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
            fi
        fi
    fi
fi

```



```

pkg="$LOCALBASE/threads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lthread
-lm -lgcc -lthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
;;
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
;;
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
;;
#

```

```

#
BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*bsd3.*|*bsd4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*-linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*-solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)
    ;;
#
# UnixWare does things its own way.
#
*-UnixWare*)
    AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
    ;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf,
AC_DEFINE(HAVE_SYSCONF),)

if test "X$GCC" = "Xyes"; then
case "$host" in
*-freebsd*)

```

```

CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
LIBS="$LIBS -lthread"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
esac
else
case $host in
*-dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads
fi

```

```

AC_CHECK_FUNC(strlcat,
AC_DEFINE(HAVE_STRLCAT))

AC_SUBST(ALWAYS_DEFINES)
AC_SUBST(DO_PTHREADS)
AC_SUBST(WANT_IRS_THREADSGR_OBJS)
AC_SUBST(WANT_IRS_THREADSPW_OBJS)
AC_SUBST(WANT_IRS_THREADS_OBJS)

AC_CHECK_FUNC(if_nametoindex,
[USE_IFNAMESLINKID="#define USE_IFNAMESLINKID 1"],
[USE_IFNAMESLINKID="#undef USE_IFNAMESLINKID"])
AC_SUBST(USE_IFNAMESLINKID)

ISC_THREAD_DIR=$thread_dir
AC_SUBST(ISC_THREAD_DIR)

AC_CHECK_FUNC(daemon,
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]
,
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]
)
AC_SUBST(DAEMON_OBJS)
AC_SUBST(NEED_DAEMON)

AC_CHECK_FUNC(strsep,
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]
,
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]
)
AC_SUBST(STRSEP_OBJS)
AC_SUBST(NEED_STRSEP)

AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],
[NEED_STRERROR="#define NEED_STRERROR 1"])
AC_SUBST(NEED_STRERROR)

#
#
# flockfile is usually provided by pthreads, but we may want to use it
# even if compiled with --disable-threads.
#
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)

#
# Indicate what the final decision was regarding threads.
#

```

```

AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
  AC_MSG_RESULT(yes)
else
  AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
  STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
  case $host in
    *-dec-osf*)
      CC="$CC -std"
      CCOPT="$CCOPT -std"
      MKDEPCC="$CC"
      ;;
    *-hp-hpux*)
      CC="$CC -Ae -z"
      # The version of the C compiler that constantly warns about
      # 'const' as well as alignment issues is unfortunately not
      # able to be discerned via the version of the operating
      # system, nor does cc have a version flag.
      case
        "`$CC +W 123 2>&1`" in
          *Unknown?option*)
            STD_CWARNINGS="+w1"
            ;;
          *)
            # Turn off the pointlessly noisy warnings.
            STD_CWARNINGS="+w1 +W 474,530"
            ;;
        esac
      CCOPT="$CCOPT -Ae -z"
      LIBS="-Wl,+vnocompatwarnings $LIBS"
      MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk """"BEGIN { colon=0; rec="";} { for (i = 0 ; i < NF; i++)
      { if (colon && a[$i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " : "
      colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\""; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;

```

```

} } } END {print rec}'"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC
-w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lxnet buys us one big porting headache... standards, gotta love 'em.
#
# AC_CHECK_LIB(xnet, socket, ,

```

```

# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
mips-sgi-irix*)
;;
*)
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path,
purify, purify)
;;
*)
purify_path="$use_purify"
;;
esac

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS="`echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else
AC_MSG_ERROR([$purify_path not found.

```

Please choose the proper path with the following command:

```
    configure --with-purify=PATH
)
fi
;;
esac

AC_SUBST(PURIFY)

#
# GNU libtool support
#
AC_ARG_WITH(libtool,
    [ --with-libtool use GNU libtool (following indented options supported)],
    use_libtool="$withval", use_libtool="no")

case $use_libtool in
yes)
    AM_PROG_LIBTOOL
    O=lo
    A=la
    LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
    LIBTOOL_MODE_COMPILE='--mode=compile'
    LIBTOOL_MODE_INSTALL='--mode=install'
    LIBTOOL_MODE_LINK='--mode=link'
    ;;
*)
    O=o
    A=a
    LIBTOOL=
    AC_SUBST(LIBTOOL)
    LIBTOOL_MKDEP_SED=
    LIBTOOL_MODE_COMPILE=
    LIBTOOL_MODE_INSTALL=
    LIBTOOL_MODE_LINK=
    ;;
esac

#
#
# File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a

AC_SUBST(O)
```



```

AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether
# IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)
AC_ARG_WITH(kame,

```

```
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6],  
use_kame="$withval", use_kame="no")
```

```
case "$use_kame" in  
no)  
;;  
yes)  
kame_path=/usr/local/v6  
;;  
*)  
kame_path="$use_kame"  
;;  
esac
```

```
case "$use_kame" in  
no)  
AC_MSG_RESULT(no)  
;;  
*)  
if test -f $kame_path/lib/libinet6.a; then  
AC_MSG_RESULT($kame_path/lib/libinet6.a)  
LIBS="-L$kame_path/lib -linet6 $LIBS"  
else  
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.
```

Please choose the proper path with the following command:

```
configure --with-kame=PATH  
])  
fi  
;;  
esac
```

```
#  
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.  
# Including it on Kame-using platforms is very bad, though, because  
# Kame uses #error against direct inclusion. So include it on only  
# the platform that is otherwise broken without  
it -- BSD/OS 4.0 through 4.1.  
# This is done before the in6_pktinfo check because that's what  
# netinet6/in6.h is needed for.  
#  
changequote(, )  
case "$host" in  
*-bsdi4.[01]*)  
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"  
isc_netinet6in6_hack="#include <netinet6/in6.h>"  
;;
```

```

*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
    ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
    ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
HAS_INET6_STRUCTS="#define
HAS_INET6_STRUCTS 1"

    AC_MSG_CHECKING(for in6_addr)
    AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

    AC_MSG_CHECKING(for in6addr_any)

```

```

AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct
sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>

```

```

#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)

HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"])
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINETIN6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs
# to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([
#include <sys/types.h>

```

```

#include <netinet/in.h>
#include <arpa/inet.h>],
    [inet_ntop(0, 0, 0, 0); return (0);],
    [AC_MSG_RESULT(yes)
    ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

    [AC_MSG_RESULT(no)
    ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
    ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
    [inet_pton(0, 0, 0); return (0);],
    [AC_MSG_RESULT(yes)
    ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

    [AC_MSG_RESULT(no)
    ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
    ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON
1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
    [struct in_addr in; inet_aton(0, &in); return (0);],
    [AC_MSG_RESULT(yes)
    ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

    [AC_MSG_RESULT(no)
    ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
    ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)
    # Turn on 4.4BSD style sa_len support.

```

```

AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef
HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;
*aux3*) PORT_DIR="port/aux3";;

```

```

*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
  BSD_COMP="#define
BSD_COMP 1"
  SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
  USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
  PORT_DIR="port/solaris";;
*-solaris2.5*)
  BSD_COMP="#define BSD_COMP 1"
  SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
  PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
  PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
#
  Look for a 4.4BSD or 4.3BSD struct msghdr
#
AC_MSG_CHECKING(for struct msghdr flavor)

```



```

AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msg_hdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

```

```

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define
ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

```

```

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],
[AC_MSG_RESULT(yes)

```

```

ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)

AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)

AC_MSG_CHECKING(for
int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)

AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)

AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)

AC_CHECK_FUNC(getipnodebyname,

```

```

    [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
    [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"
AC_DEFINE(HAVE_GETADDRINFO)],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define
NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,
    [ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],

```

```

[ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSEERROR_LIST="#undef
USE_SYSEERROR_LIST"],
[USE_SYSEERROR_LIST="#define USE_SYSEERROR_LIST 1"])
AC_SUBST(USE_SYSEERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(1)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(1l)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT
"ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, socklen_t *);

```

```

],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define
ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
)))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
),

```

```

GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPEMENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) { }
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS
char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
char *, size_t, struct netent **, int *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"

```

```

NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN
int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define
NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"

```

```

GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef
__USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r(int);
],[return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT
#undef __USE_MISC

```



```

#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
],[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include
<netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT

```

```

#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include
<grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
int buflen) { }
],[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

```

```

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef
GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) {}
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

```

```

int gethostbyname_r(const
char *name,
                    struct hostent *result,
                    struct hostent_data *hdptr);
],[
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
                            struct hostent *,
                            char *, size_t,
                            struct hostent **,
                            int *);
],[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define
HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
)

```

```

AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[,]
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[,]
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
],

```

```

)
)
)
,
HOST_R_END_RESULT="#define
HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);],[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);],[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void sethostent_r (int);],[],
[HOST_R_SET_RESULT="#undef
HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"

```

```

)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)

AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)

AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)

AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)

AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>

```

```

int
getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD
(0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"

```



```

NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case
"$host" in
*bsdi*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"

```

```

;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define
    PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"

```

```

PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define
PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
,
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"

```

```

PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef
PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) {}
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,
)

```

```

,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd
*"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN

```

```

int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) { }
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN
struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],

```

```

[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,

```

```

)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
"
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define
SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
"
[
INNETGR_ARGS="#undef INNETGR_ARGS"

```



```

]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(char *netgroup, char *host, char *user, char *domain);
]
”
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

```

```

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
”
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,

```

```

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void
setnetgrent(char *);
]
”
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"

```

```

]
,
))
AC_SUBST(SETNETGREN_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsd3.1*)
hack_shutup_sputaux=yes
;;
*-bsd4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsd4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

case "$hack_shutup_pthreadonceinit" in
yes)
#
# Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
;;
esac

case
"$hack_shutup_sigwait" in
yes)
#
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)

```

```

;;
esac

case "$hack_shutup_sputaux" in
yes)
#
# Shut up a -Wmissing-prototypes warning from <stdio.h>.
#
AC_DEFINE(SHUTUP_SPUTAUX)
;;
esac

case "$hack_shutup_stdargcast" in
yes)
#
# Shut up a -Wcast-qual warning from va_start().
#
AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$hack_shutup_in6addr_init_macros" in
yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(

```

```
make/rules
make/mkdep
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile
)
```

```
#
```

```
Tell Emacs to edit this file in shell mode.
```

```
# Local Variables:
```

```
# mode: sh
```

```
# End:
```

```
Found in path(s):
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/configure.in
```

```
No license file was found, but licenses were detected in source scan.
```

```
/*
```

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```

```
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```

```
*
```

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*
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```
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```

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/mem.c
```

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\*/

Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/bsd/strcasecmp.c

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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">

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-->

<!-- \$Id: lwres\_gabn.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>  
<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gabn</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gabnrequest\_render</refname>

<refname>lwres\_gabnresponse\_render</refname>

<refname>lwres\_gabnrequest\_parse</refname>

<refname>lwres\_gabnresponse\_parse</refname>

<refname>lwres\_gabnresponse\_free</refname>

<refname>lwres\_gabnrequest\_free</refname>

<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_gabnrequest\_render</function></funcdef>

<paramdef>lwres\_context\_t \*ctx</paramdef>

<paramdef>lwres\_gabnrequest\_t \*req</paramdef>

<paramdef>lwres\_lwpacket\_t \*pkt</paramdef>

<paramdef>lwres\_buffer\_t \*b</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_gabnresponse\_render</function></funcdef>

```

<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t
**structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>

```

There are four main functions for the getaddrbyname opcode.

One render function converts a getaddrbyname request structure &mdash;

<type>lwres\_gabnrequest\_t</type> &mdash;

to the lightweight resolver's canonical format.

It is complemented by a parse function that converts a packet in this

canonical format to a getaddrbyname request structure.

Another render function converts the getaddrbyname response structure &mdash;

<type>lwres\_gabnresponse\_t</type> &mdash;

to the canonical format.

This is complemented by a parse function which

converts a packet in

canonical format to a getaddrbyname response structure.

</para>

<para>

These structures are defined in

<filename>&lt;lwres/lwres.h&gt;</filename>.

They are shown below.

<programlisting>

```
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U
```

```
typedef struct lwres_addr lwres_addr_t;
```

```
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint32_t addrtypes;
```

```
    lwres_uint16_t namelen;
```

```
    char          *name;
```

```
} lwres_gabnrequest_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint16_t naliases;
```

```
    lwres_uint16_t naddrs;
```

```
    char          *realname;
```

```
    char          **aliases;
```

```
    lwres_uint16_t realnamelen;
```

```
    lwres_uint16_t *aliaslen;
```

```
    lwres_addrlist_t addrs;
```

```
    void          *base;
```

```
    size_t        baselen;
```

```
} lwres_gabnresponse_t;
```

</programlisting>

</para>

<para>

<function>lwres\_gabnrequest\_render()</function>

uses



resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>\*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres\_gabnresponse\_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres\_gabnresponse\_t</type>

to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres\_gabnrequest\_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres\_gabnrequest\_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres\_gabnrequest\_t</type>

is

made available through

<parameter>\*structp</parameter>.

<function>lwres\_gabnresponse\_parse()</function>

offers the same semantics as

<function>lwres\_gabnrequest\_parse()</function>

except it yields a

<type>lwres\_gabnresponse\_t</type>

structure.

</para>

<para>

<function>lwres\_gabnresponse\_free()</function>

and

<function>lwres\_gabnrequest\_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres\_gabnresponse\_t</type>

or

<type>lwres\_gabnrequest\_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres\_gabnrequest\_render()</function>,

<function>lwres\_gabnresponse\_render()</function>

<function>lwres\_gabnrequest\_parse()</function>

and

<function>lwres\_gabnresponse\_parse()</function>

all return

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on

success.

They return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if memory allocation fails.

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

is returned if the available space in the buffer

<parameter>b</parameter>

is too small to accommodate the packet header or the

<type>lwres\_gabnrequest\_t</type>

and

<type>lwres\_gabnresponse\_t</type>

structures.

<function>lwres\_gabnrequest\_parse()</function>

and

<function>lwres\_gabnresponse\_parse()</function>

will return

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffer is not empty after decoding the received packet.

These functions will return

<errorcode>LWRES\_R\_FAILURE</errorcode>

if

<structfield>pktflags</structfield>

in the packet header structure

```
<type>lwres_lwpacket_t</type>
indicate that the packet is not a response to an earlier query.
</para>
</refsect1>
<refsect1>
<title>SEE ALSO</title>
<para>
<citerefentry>
<refentrytitle>lwres_packet</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
</para>
</refsect1>
</refentry>
```

#### Found

in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_gabn.docbook
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```

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```

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/openssldh\_link.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst\_parse.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

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.\"

.\" \$Id: lwres\_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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-->

<!-- \$Id: lwres\_gethostent.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gethostent</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gethostbyname</refname>

<refname>lwres\_gethostbyname2</refname>

<refname>lwres\_gethostbyaddr</refname>

<refname>lwres\_gethostent</refname>

<refname>lwres\_sethostent</refname>

<refname>lwres\_endhostent</refname>

<refname>lwres\_gethostbyname\_r</refname>

<refname>lwres\_gethostbyaddr\_r</refname>



```

<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function></funcdef>
<paramdef>const char *name</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct
    hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>

```

```

<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int
buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent_r</function></funcdef>
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<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
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<funcdef>
void
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</funcprototype>
<funcprototype>
<funcdef>
void
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<paramdef>void</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

<refsect1>

```

<title>DESCRIPTION</title>

<para>

These

functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver.

They are similar to the standard

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions provided by most operating systems.

They use a

<type>struct hostent</type>

which is usually defined in

<filename>&lt;namedb.h&gt;</filename>.

<programlisting>

```
struct hostent {
    char  *h_name;    /* official name of host */
    char  **h_aliases; /* alias list */
    int   h_addrtype; /* host address type */
    int   h_length;   /* length of address */
    char  **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned &mdash;

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h\_addr</constant>

is the first address in

<constant>h\_addr\_list.</constant>

</para>

<para>

<function>lwres\_ghostent()</function>,</para>

<function>lwres\_sethostent()</function>,</para>

<function>lwres\_endhostent()</function>,</para>

<function>lwres\_ghostent\_r()</function>,</para>

<function>lwres\_sethostent\_r()</function>

and

<function>lwres\_endhostent\_r()</function>

provide

iteration over the known host entries on systems that

provide such functionality through facilities like

<filename>/etc/hosts</filename>

or NIS. The lightweight resolver does not currently implement

these functions; it only provides them as stub functions that always

return failure.

</para>

<para>

<function>lwres\_ghostbyname()</function> and

<function>lwres\_ghostbyname2()</function> look up the hostname

<parameter>name</parameter>.

<function>lwres\_ghostbyname()</function> always looks for an IPv4

address while `lwres_gethostbyname2()` looks for an address of protocol family `af`: either `PF_INET` or `PF_INET6` &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a `struct hostent` for the name that was looked up. `NULL` is returned if the lookups by `lwres_gethostbyname()` or `lwres_gethostbyname2()` fail.

Reverse lookups of addresses are performed by `lwres_gethostbyaddr()`. `addr` is an address of length `len` bytes and protocol family `type` &mdash; `PF_INET` or `PF_INET6`. `lwres_gethostbyname_r()` is a thread-safe function for forward lookups. If an error occurs, an error code is returned in `*error`. `resbuf` is a pointer to a `struct hostent` which is initialised by a successful call to `lwres_gethostbyname_r()`. `buf` is a buffer of length `len` bytes which is used to store the `h_name`, `h_aliases`, and `h_addr_list` elements of the `struct hostent` returned in `resbuf`. Successful calls to `lwres_gethostbyname_r()` return `resbuf`, which is a pointer to the `struct hostent` it created.

`lwres_gethostbyaddr_r()` is a thread-safe function that performs a reverse lookup of address `addr` which is `len` bytes long and is of protocol family `type` &mdash; `PF_INET` or `PF_INET6`. If an error occurs, the error code is returned in `*error`. The other function parameters are identical to those in `lwres_gethostbyname_r()`. `resbuf` is a pointer to a `struct hostent` which is initialised by a successful call to `lwres_gethostbyaddr_r()`. `buf`

is a buffer of length  
<parameter>len</parameter> bytes which is used to store the  
<constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type> returned in <parameter>resbuf</parameter>. Successful  
calls to <function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, which is a pointer to the  
<function>struct hostent()</function> it created.  
</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The functions

<function>lwres\_gethostbyname()</function>,&br/><function>lwres\_gethostbyname2()</function>,&br/><function>lwres\_gethostbyaddr()</function>,&br/>and

<function>lwres\_gethostent()</function>  
return NULL to indicate an error. In this case the global variable  
<type>lwres\_h\_errno</type>  
will contain one of the following error codes defined in  
<filename>&lt;lwres/netdb.h&gt;</filename>:

<filename>&lt;lwres/netdb.h&gt;</filename>:

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

The

host or address was not found.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A recoverable error occurred, e.g., a timeout.

Retrying the lookup may succeed.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

<listitem>

<para>

A non-recoverable error occurred.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_DATA</constant></term>

<listitem>  
<para>  
The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO\_ADDRESS is accepted as a synonym for NO\_DATA for backwards compatibility.

</para>  
</listitem></varlistentry>  
</variablelist>  
</para>

<para>  
<citerefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
translates these error codes to suitable error messages.

</para>

<para>  
<function>lwres\_gethostent()</function>  
and  
<function>lwres\_gethostent\_r()</function>  
always  
return  
<type>NULL</type>.

</para>

<para>  
Successful calls to <function>lwres\_gethostbyname\_r()</function> and  
<function>lwres\_gethostbyaddr\_r()</function> return  
<parameter>resbuf</parameter>, a pointer to the <type>struct  
hostent</type> that was initialised by these functions. They return  
<type>NULL</type> if the lookups fail or if <parameter>buf</parameter>  
was too small to hold the list of addresses and names referenced by  
the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and  
<constant>h\_addr\_list</constant> elements of the <type>struct  
hostent</type>. If <parameter>buf</parameter> was too small, both  
<function>lwres\_gethostbyname\_r()</function> and  
<function>lwres\_gethostbyaddr\_r()</function> set the global variable  
<type>errno</type> to <errorcode>ERANGE</errorcode>.

</para>

</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>

```
<citrefentry>
<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3
</manvolnum>
</citrefentry>
</para>
</refsect1>
```

```
<refsect1>
<title>BUGS</title>
<para>
<function>lwres_gethostbyname()</function>,
<function>lwres_gethostbyname2()</function>,
<function>lwres_gethostbyaddr()</function>
and
<function>lwres_endhostent()</function>
are
not thread safe; they return pointers to static data and
provide error codes through a global variable.
Thread-safe versions for name and address lookup are provided by
<function>lwres_gethostbyname_r()</function>,
and
<function>lwres_gethostbyaddr_r()</function>
respectively.
</para>
<para>
The resolver daemon does not currently support any non-DNS
name services such as
<filename>/etc/hosts</filename>
or
<type>NIS</type>,
consequently the above functions don't, either.
</para>
</refsect1>
</refentry>
```

Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_gethostent.docbook

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/bsd/utimes.c  
\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/memcluster.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/cygwin/include/ansi\_realloc.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/heap.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/include/isc/list.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/include/isc/heap.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/include/isc/memcluster.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/assertions.c

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in path(s):

- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h  
\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h  
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/resolv/res\_send.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/resolv/res\_init.c

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- \*
  - \* @(#)cdefs.h 8.7 (Berkeley) 1/21/94
- \*/

Found in path(s):

- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h
- \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h

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-->

<!-- \$Id: lwres\_context.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>  
<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_context</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_context\_create</refname>

<refname>lwres\_context\_destroy</refname>

<refname>lwres\_context\_nextserial</refname>

<refname>lwres\_context\_initserial</refname>

<refname>lwres\_context\_freemem</refname>

<refname>lwres\_context\_allocmem</refname>

<refname>lwres\_context\_sendrecv</refname>

<refpurpose>lightweight resolver context management</refpurpose>

</refnamediv>

<refsynopsisdiv>

<functsynopsis>

<functsynopsisinfo>#include <lwres/lwres.h></functsynopsisinfo>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_context\_create</function></funcdef>

<paramdef>lwres\_context\_t \*\*contextp</paramdef>

<paramdef>void \*arg</paramdef>

<paramdef>lwres\_malloc\_t malloc\_function</paramdef>

<paramdef>lwres\_free\_t free\_function</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

lwres\_result\_t

<function>lwres\_context\_destroy</function></funcdef>

<paramdef>lwres\_context\_t

\*\*contextp</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

```

<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_uint32_t
<function>lwres_context_nextserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_freemem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>void *mem</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_allocmem</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>size_t len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void *
<function>lwres_context_sendrecv</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.

```

The new  
<type>lwres\_context\_t</type>  
is returned through  
<parameter>contextp</parameter>,

a pointer to a  
<type>lwres\_context\_t</type>  
pointer. This  
<type>lwres\_context\_t</type>  
pointer must initially be NULL, and is modified  
to point to the newly created  
<type>lwres\_context\_t</type>.

</para>

<para>

When the lightweight resolver needs to perform dynamic memory  
allocation, it will call

<parameter>malloc\_function</parameter>

to allocate memory and

<parameter>free\_function</parameter>

to

free it. If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL, memory is allocated using

.Xr malloc 3

and

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

It is not permitted to have a NULL

<parameter>malloc\_function</parameter>

and a non-NULL

<parameter>free\_function</parameter>

or vice versa.

<parameter>arg</parameter>

is passed as the first parameter to the memory  
allocation functions.

If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL,

<parameter>arg</parameter>



is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated,  
it is initialized using

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>

and returned via

<parameter>\*contextp</parameter>.

</para>

<para>

<function>lwres\_context\_destroy()</function>

destroys a

<type>lwres\_context\_t</type>,

closing

its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver  
request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres\_context\_initserial()</function>

and

<function>lwres\_context\_nextserial()</function>.

<function>lwres\_context\_initserial()</function>

sets the serial number for context

<parameter>\*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres\_context\_nextserial()</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres\_context\_allocmem()</function>

and

<function>lwres\_context\_freemem()</function>.

These use whatever allocations were defined when the context was

created

with  
<function>lwres\_context\_create()</function>.  
<function>lwres\_context\_allocmem()</function>  
allocates  
<parameter>len</parameter>  
bytes of memory and if successful returns a pointer to the allocated  
storage.  
<function>lwres\_context\_freemem()</function>  
frees  
<parameter>len</parameter>  
bytes of space starting at location  
<parameter>mem</parameter>.

</para>  
<para>  
<function>lwres\_context\_sendrecv()</function>  
performs I/O for the context  
<parameter>ctx</parameter>.

Data are read and written from the context's socket.  
It writes data from  
<parameter>sendbase</parameter>  
&mdash; typically a lightweight resolver query packet &mdash;  
and waits for a reply which is copied to the receive buffer at  
<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is  
returned in  
<parameter>\*recvd\_len</parameter>.

</para>  
</refsect1>  
<refsect1>  
<title>RETURN VALUES</title>  
<para>  
<function>lwres\_context\_create()</function>  
returns  
<errorcode>LWRES\_R\_NOMEMORY</errorcode>  
if  
memory for the  
<type>struct lwres\_context</type>  
could not be allocated,  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
otherwise.  
</para>  
<para>  
Successful calls to the memory allocator  
<function>lwres\_context\_allocmem()</function>

return a pointer to the start of the allocated space.

It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned when

<function>lwres\_context\_sendrecv(</function>

completes successfully.

<errorcode>LWRES\_R\_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES\_R\_TIMEOUT</errorcode>

is returned if

<function>lwres\_context\_sendrecv(</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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\*  
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/cc.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/types.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/base64.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/events.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/symtab.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/util.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/base64.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/ccmsg.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/lib.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/sexpr.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/alist.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/symtype.h  
\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/alist.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/sexpr.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/lib.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/include/isccc/ccmsg.h  
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.\n  
.\n \$Id: lwres\_getipnode.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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Found

in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_getipnode.3

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/rwlock.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/task.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/result.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mx\_15.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/time.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/result.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/time.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/base64.c

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/validator.h  
\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/byaddr.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/diff.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/entropy.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/opensslrsa\_link.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/socket.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/entropy.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/hex.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/msgs.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/getrrset.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/validator.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/byaddr.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/iscconf/parser.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/lwconfig.c

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\* By Steve Reid <steve@edmweb.com>

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\*

/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/buffer.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/proforma.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/in\_1/a\_1.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/netaddr.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/buffer.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/null\_10.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/soa\_6.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/event.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/timer.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/opt\_41.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/socket.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/region.h

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/lex.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/txt\_16.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/threads/include/isc/mutex.h

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\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/assertions.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/heap.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/mem.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/heap.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/include/lwres/list.h  
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\*

/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/win32/DLLMain.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/bindevt.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/ntpaths.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/version.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind9/include/bind9/check.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/sterror.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isccc/win32/DLLMain.c

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind9/win32/DLLMain.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/bind_registry.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/version.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind9/version.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind9/include/bind9/getaddresses.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isccc/win32/version.c
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/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind9/include/bind9/version.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/sterror.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/key.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/syslog.c

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```

```
-->
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<!-- $Id: lwres_resutil.docbook,v
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```
1.1 2004/11/03 01:39:06 abstine Exp $ -->
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<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrsbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
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<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
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lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrsbyname</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>

```

```
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
```

```
<refsect1>
<title>DESCRIPTION</title>
```

```
<para>
<function>lwres_string_parse()</function> retrieves a DNS-encoded
string starting the current pointer of lightweight resolver buffer
<parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>.
When the function returns, the address of the first byte of the
encoded string is returned via
<parameter>*c</parameter> and the
length of that string is given by <parameter>*len</parameter>. The
buffer's current pointer is advanced to point at the character
following the string length, the encoded string, and the trailing
<type>NULL</type> character.
</para>
```

```
<para>
<function>lwres_addr_parse()</function> extracts an address from the
buffer <parameter>b</parameter>. The buffer's current pointer
<constant>b-&gt;current</constant> is presumed to point at an encoded
address: the address preceded by a 32-bit protocol family identifier
and a 16-bit length field. The encoded address is copied to
<constant>addr-&gt;address</constant> and
<constant>addr-&gt;length</constant> indicates the size in bytes of
the address that was copied. <constant>b-&gt;current</constant> is
advanced to point at the next byte of available data in the buffer
following the encoded address.
</para>
```

```
<para>
<function>lwres_getaddrsbyname()</function>
and
<function>lwres_getnamebyaddr()</function>
use the
<type>lwres_gnbaresponse_t</type>
structure
```

defined below:

```
<programlisting>
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;
    size_t            baselen;
} lwres_gabnresponse_t;
</programlisting>
```

The contents of this structure are not manipulated directly but they are controlled through the

```
<citerefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3
</manvolnum>
</citerefentry>
functions.
</para>
```

```
<para>
The lightweight resolver uses
<function>lwres_getaddrbyname()</function> to perform forward lookups.
Hostname <parameter>name</parameter> is looked up using the resolver
context <parameter>ctx</parameter> for memory allocation.
<parameter>addrtypes</parameter>
is a bitmask indicating which type of
addresses are to be looked up. Current values for this bitmask are
<type>LWRES_ADDRTYPE_V4</type> for IPv4 addresses and
<type>LWRES_ADDRTYPE_V6</type> for IPv6 addresses. Results of the
lookup are returned in <parameter>*structp</parameter>.
</para>
```

```
<para>
<function>lwres_getnamebyaddr()</function> performs reverse lookups.
Resolver context <parameter>ctx</parameter> is used for memory
allocation. The address type is indicated by
<parameter>addrtype</parameter>: <type>LWRES_ADDRTYPE_V4</type> or
<type>LWRES_ADDRTYPE_V6</type>. The address to be looked up is given
by <parameter>addr</parameter> and its length is
<parameter>addrlen</parameter> bytes. The result of the function call
is made available through <parameter>*structp</parameter>.
</para>
</refsect1>
```

<refsect1>  
<title>RETURN VALUES</title>  
<para>  
Successful calls to  
<function>lwres\_string\_parse()</function>  
and  
<function>lwres\_addr\_parse()</function>  
return  
<errorcode>LWRES\_R\_SUCCESS.</errorcode>  
Both  
functions return  
<errorcode>LWRES\_R\_FAILURE</errorcode>  
if the buffer is corrupt or  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffer has less space than expected for the components of the  
encoded string or address.  
</para>  
<para>  
<function>lwres\_getaddrbyname()</function>  
returns  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
on success and it returns  
<errorcode>LWRES\_R\_NOTFOUND</errorcode>  
if the hostname  
<parameter>name</parameter>  
could not be found.  
</para>  
<para>  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
is returned by a successful call to  
<function>lwres\_getnamebyaddr()</function>.  
</para>  
  
<para>  
Both  
<function>lwres\_getaddrbyname()</function>  
and  
<function>lwres\_getnamebyaddr()</function>  
return  
<errorcode>LWRES\_R\_NOMEMORY</errorcode>  
when memory allocation requests fail and  
<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>  
if the buffers used for sending queries and receiving replies are too  
small.  
</para>  
  
</refsect1>

```
<refsect1>
<title>SEE
ALSO</title>
<para>
<citrefentry>
<refentrytitle>lwres_buffer</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,

<citrefentry>
<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>.
</para>

</refsect1>
</refentry>
```

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/syslog.c  
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\*  
\* BINOS specific changes to associate memcluster with an evctx  
\*  
\* March 2014,  
Aswin Kuppusami  
\*/

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/memcluster\_binos.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/memcluster\_p.h  
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\* eventlib definitions specific to binos

\*

\* January 2007, Vikram Visweswaraiah

\*

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\*/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/inet/inet\_cidr\_pton.c

\*/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/ctl\_srvr.c

\*/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/include/isc/ctl.h

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.\n

.\n \$Id: lwres\_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\n

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# \$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp \$

# Search for machine-generated header files in the  
# build tree,  
# and for normal headers in the source tree (\${top\_srcdir}).  
# We only need to look in OS-specific subdirectories for the  
# latter case, because there are no machine-generated OS-specific  
# headers.

ISC\_INCLUDES = @BIND9\_ISC\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/isc \  
-I\${top\_srcdir}/lib/isc/include \  
-I\${top\_srcdir}/lib/isc/unix/include \  
-I\${top\_srcdir}/lib/isc/@ISC\_THREAD\_DIR@/include

ISCCFG\_INCLUDES = @BIND9\_ISCCFG\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/isccfg/include

DNS\_INCLUDES = @BIND9\_DNS\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/dns/include \  
-I\${top\_srcdir}/lib/dns/sec/dst/include

OMAPI\_INCLUDES = @BIND9\_OMAPI\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/omapi/include

LWRES\_INCLUDES = @BIND9\_LWRES\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/lwres/include

TEST\_INCLUDES = \  
-I\${top\_srcdir}/lib/tests/include

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\*

/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/irp\_p.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

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\*  
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/include/isc/misc.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/ev\_connects.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/include/isc/eventlib.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/ev\_timers.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/isc/eventlib.c

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/stat.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/ifiter\_getifaddrs.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/nsec\_47.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/portlist.c

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/stdlib.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/hash.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.c

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/portlist.h

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/irp.c

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/cert\_37.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/message.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/rdataset.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/ncache.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/ifiter\_sysctl.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/cache.c

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/view.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/net.c

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/master.c
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/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/sig_24.c
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*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/view.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/adb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/masterdump.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/a6_38.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/random.c

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/getservent.c  
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
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.\ " \$Id: lwres\_hstrerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/order.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/region.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/ds\_43.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst\_openssl.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/order.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/netscope.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/ds\_43.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/ds.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/win32os.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/opcode.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/in\_1/apl\_42.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/in\_1/apl\_42.c  
\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/netscope.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/win32os.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/win32/lwconfig.c  
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/lcl\_gr.c  
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\* SHA-1 in C

\* By Steve Reid <steve@edmweb.com>

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\*

\* Test Vectors (from FIPS PUB 180-1)

\* "abc"

\* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

\* "abcdbcdecdefdefgefghfghighijhijkjklklmklmnlmnomnopopq"

\* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

\* A million repetitions of "a"

\* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

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```

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```
.\"Os OPERATING_SYSTEM [version/release]
.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" The following requests should be uncommented and
.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
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.\"
.\" $Id: lwres_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.3

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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/zonekey.c
*
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/refcount.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst_api.c
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.\" $Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_config.3
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```

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.\" $Id: lwres_noop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_noop.3
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```
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```

```
<!--
```

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-->

<!-- \$Id: lwres\_getaddrinfo.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getaddrinfo</refname>

<refname>lwres\_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getaddrinfo</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>const char \*servname</paramdef>

<paramdef>const struct addrinfo \*hints</paramdef>

<paramdef>struct addrinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

```
<function>lwres_freeaddrinfo</function></funcdef>
<paramdef>struct addrinfo *ai</paramdef>
</funcprototype>
</functsynopsis>
```

<para>  
If the operating system does  
not provide a  
<type>struct addrinfo</type>,  
the following structure is used:

```
<programlisting>
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;   /* PF_XXX */
    int      ai_socktype; /* SOCK_XXX */
    int      ai_protocol; /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
    size_t   ai_addrlen;  /* length of ai_addr */
    char     *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
</programlisting>
</para>
```

</refsynopsisdiv>

<refsect1>  
<title>DESCRIPTION</title>  
<para>  
<function>lwres\_getaddrinfo</function>  
is used to get a list of IP addresses and port numbers for host  
<parameter>hostname</parameter>  
and service  
<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of  
<function>getaddrinfo</function>  
as  
defined in RFC2133.  
<parameter>hostname</parameter>  
and  
<parameter>servname</parameter>  
are pointers to null-terminated  
strings or  
<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>

is an optional pointer to a

<type>struct addrinfo</type>.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

<parameter>\*hints</parameter>:

<variablelist>

<varlistentry><term><constant>ai\_family</constant></term>

<listitem>

<para>The protocol family that should be used.

When

<constant>ai\_family</constant>

is set to

<type>PF\_UNSPEC</type>,

it means the caller will accept any protocol family supported by the operating system.

</para></listitem></varlistentry>

<varlistentry><term><constant>ai\_socktype</constant></term>

<listitem>

<para>

denotes the type of socket &mdash;

<type>SOCK\_STREAM</type>,

<type>SOCK\_DGRAM</type>

or

<type>SOCK\_RAW</type>

&mdash; that is wanted.

When

<constant>ai\_socktype</constant>

is zero the caller will accept any socket type.

</para>

</listitem>

</varlistentry>

<varlistentry><term><constant>ai\_protocol</constant></term>

<listitem>

<para>

indicates which transport protocol is wanted: IPPROTO\_UDP or IPPROTO\_TCP.

If

<constant>ai\_protocol</constant>

is zero the caller will accept any protocol.

</para>

</listitem>

</varlistentry>

<varlistentry><term><constant>ai\_flags</constant></term>

<listitem>

<para>

Flag bits.

If the

<type>AI\_CANONNAME</type>

bit is set, a successful call to

<function>lwres\_getaddrinfo()</function>

will return a null-terminated string containing the canonical name

of the specified hostname in

<constant>ai\_canonname</constant>

of

the first

<type>addrinfo</type>

structure returned.

Setting the

<type>AI\_PASSIVE</type>

bit indicates that the returned socket address structure is intended

for used in a call to

<citerefentry>

<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>

</citerefentry>.

In this case, if the hostname argument is a

<type>NULL</type>

pointer, then the IP address portion of the socket

address structure will be set to

<type>INADDR\_ANY</type>

for an IPv4 address or

<type>IN6ADDR\_ANY\_INIT</type>

for an IPv6 address.

</para>

<para>

When

<constant>ai\_flags</constant>

does not set the

<type>AI\_PASSIVE</type>

bit, the returned socket address structure will be ready

for use in a call to

<citerefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2

</manvolnum>

</citrefentry>  
for a connection-oriented protocol or  
<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,

or

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>  
</manvolnum>  
</citrefentry>

if

a connectionless protocol was chosen.

The IP address portion of the socket address structure will be set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI\_PASSIVE</type>

is not set in

<constant>ai\_flags</constant>.

</para>

<para>

If

<constant>ai\_flags</constant>

is set to

<type>AI\_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

</para>

<para>

A `<parameter>hints</parameter>` of `<type>NULL</type>` is treated as if the caller provided a `<type>struct addrinfo</type>` initialized to zero with `<constant>ai_family</constant>` set to `<constant>PF_UNSPEC</constant>`.

After a successful call to `<function>lwres_getaddrinfo()</function>`, `<parameter>*res</parameter>` is a pointer to a linked list of one or more `<type>addrinfo</type>` structures.

Each `<type>struct addrinfo</type>` in this list can be processed by following the `<constant>ai_next</constant>` pointer, until a `<type>NULL</type>` pointer is encountered. The three members `<constant>ai_family</constant>`, `<constant>ai_socktype</constant>`, and `<constant>ai_protocol</constant>` in each returned `<type>addrinfo</type>` structure contain the corresponding arguments for a call to `<citerefentry><refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum></citerefentry>`.

For each `<type>addrinfo</type>` structure in the list, the `<constant>ai_addr</constant>` member points to a filled-in socket address structure of length `<constant>ai_addrlen</constant>`.

All of the information returned by `<function>lwres_getaddrinfo()</function>` is dynamically allocated: the `addrinfo` structures, and the socket address structures and canonical host name strings pointed to by the

<constant>addrinfo</constant> structures.

Memory allocated for the dynamically allocated structures created by a successful call to

<function>lwres\_getaddrinfo()</function>

is released by

<function>lwres\_freeaddrinfo()</function>.

<parameter>ai</parameter>

is a pointer to a

<type>struct addrinfo</type>

created by a call to

<function>lwres\_getaddrinfo()</function>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getaddrinfo()</function>

returns zero on success or one of the error codes listed in

<citerefentry>

<refentrytitle>gai\_strerror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

if an error occurs.

If both

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres\_getaddrinfo()</function>

returns

<errorcode>EAI\_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

<citrefentry>  
<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>RFC2133</refentrytitle>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,&br/>

<citrefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.

</para>

</refsect1>

</refentry>

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/events.h

```
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/log.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/x25_19.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/tsig.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/acl.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/nsap_22.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/nxt_30.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/compress.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/dnssec.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/ipv6.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/unspec_103.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/gpos_27.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/netaddr.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/journal.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/isdn_20.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/master.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rbt.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/ratelimiter.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/tsig.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/wks_11.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/zt.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/masterdump.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/lfsr.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/ncache.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rootns.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/zt.c
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```

```
/*
* msg_eventlib.c - Error messages for evlib
*
* January 2007, Vikram Visweswaraiah
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/msg_eventlib.c
```

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*/

/* $Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp $ */

#ifndef ISC_PLATFORM_H
#define
ISC_PLATFORM_H 1

/*****
**** Platform-dependent defines.
*****/

/**
*** Network.
***/

/*
* Define if this system needs the <netinet/in6.h> header file included
* for full IPv6 support (pretty much only UnixWare).
*/
@ISC_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinfo (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
* will be defined.
```

```
*/
@ISC_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pktinfo,
ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.
*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/
@ISC_PLATFORM_NEEDPTON@
```

```

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@

/*
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strlcpy(), ISC_PLATFORM_NEEDSTRLCPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCPY@

/*
* If the
system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/
@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
* Define on some UnixWare systems to fix erroneous definitions of various
* IN6_IS_ADDR_* macros.
*/
@ISC_PLATFORM_FIXIN6ISADDR@

/**
*** Printing.
***/

```

```

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause
 * fd_set to be delared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
 * Type used for resource limits.
 */
@ISC_PLATFORM_RLIMITTYPE@

/*
 * Define if your compiler supports "long long int".
 */
@ISC_PLATFORM_HAVELONGLONG@

/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
@ISC_PLATFORM_HAVELIFCONF@

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

```

```

/*
 * Define if the system has struct if_addrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define
  LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)

```



```

#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
 * Tell emacs to use C mode for this file.
 *
 * Local Variables:
 * mode: c
 * End:
 */

#endif /* ISC_PLATFORM_H */

```

Found  
in path(s):  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/platform.h.in  
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```
.\n
.\n $Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\n
```

#### Found

in path(s):

```
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```

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```
*/
```

```
/*
```

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*
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/inet\_ntop.c

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/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp \$ \*/

#ifndef LWRES\_PLATFORM\_H

#define

LWRES\_PLATFORM\_H 1

/\*\*\*\*\*

\*\*\*\* Platform-dependent defines.

\*\*\*\*/

/\*\*\*

\*\* Network.

\*\*/

/\*

\* Define if this system needs the <netinet/in6.h> header file for IPv6.

\*/

@LWRES\_PLATFORM\_NEEDNETINETIN6H@

/\*

\* Define if this system needs the <netinet6/in6.h> header file for IPv6.

\*/

@LWRES\_PLATFORM\_NEEDNETINET6IN6H@

/\*

\* If sockaddrs on this system have an sa\_len field, LWRES\_PLATFORM\_HAVESALEN

\* will be defined.

\*/

@LWRES\_PLATFORM\_HAVESALEN@

/\*

\* If this system has the IPv6 structure definitions, LWRES\_PLATFORM\_HAVEIPV6

\* will be defined.

\*/

@LWRES\_PLATFORM\_HAVEIPV6@

/\*

\* If this system is missing in6addr\_any, LWRES\_PLATFORM\_NEEDIN6ADDRANY will

\* be defined.

\*/

```
@LWRES_PLATFORM_NEEDIN6ADDRANY@
```

```
/*
```

```
* If this system is missing in6addr_loopback,  
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
```

```
*/
```

```
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@
```

```
/*
```

```
* If this system has in_addr6, rather than in6_addr,  
* LWRES_PLATFORM_HAVEINADDR6 will be defined.
```

```
*/
```

```
@LWRES_PLATFORM_HAVEINADDR6@
```

```
/*
```

```
* Defined if unistd.h does not cause fd_set to be declared.
```

```
*/
```

```
@LWRES_PLATFORM_NEEDSYSSELECTH@
```

```
/*
```

```
* Used to control how extern data is linked; needed for Win32 platforms.
```

```
*/
```

```
@LWRES_PLATFORM_USEDECLSPEC@
```

```
/*
```

```
* Defined this system needs vsnprintf() and snprintf().
```

```
*/
```

```
@LWRES_PLATFORM_NEEDVSNPRINTF@
```

```
/*
```

```
* If this system need a modern sprintf() that returns (int) not (char*).
```

```
*/
```

```
@LWRES_PLATFORM_NEEDSPRINTF@
```

```
#ifndef LWRES_PLATFORM_USEDECLSPEC
```

```
#define LIBLWRES_EXTERNAL_DATA
```

```
#else
```

```
#ifdef LIBLWRES_EXPORTS
```

```
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
```

```
#else
```

```
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
```

```
#endif
```

```
#endif
```

```
#endif /* LWRES_PLATFORM_H */
```

Found in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/platform.h.in
```



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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/lcl\_pr.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/lcl\_pw.c

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 \* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/lcl\_ho.c

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.\" \$Id: lwres\_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/dst/md5\_locl.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/dst/md5.h

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.\" $Id: lwres_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

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\* This code implements the MD5 message-digest algorithm.

\* The algorithm is due

to Ron Rivest. This code was

\* written by Colin Plumb in 1993, no copyright is claimed.

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\*

\* Equivalent code is available from RSA Data Security, Inc.

\* This code has been tested against that, and is equivalent,

\* except that you don't need to include two pages of legalese

\* with every copy.

\*

\* To compute the message digest of a chunk of bytes, declare an

\* MD5Context structure, pass it to MD5Init, call MD5Update as

\* needed on buffers full of bytes, and then call MD5Final, which

\* will fill a supplied 16-byte array with the digest.

\*/

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<!-- \$Id: lwres\_getrrsetbyname.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>



<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getrrsetbyname</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getrrsetbyname</refname>

<refname>lwres\_freerrset</refname>

<refpurpose>retrieve DNS records</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getrrsetbyname</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>unsigned int rdclass</paramdef>

<paramdef>unsigned int rdtype</paramdef>

<paramdef>unsigned int flags</paramdef>

<paramdef>struct rrsetinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freerrset</function></funcdef>

<paramdef>struct rrsetinfo \*rrset</paramdef>

</funcprototype>

</funcsynopsis>

<para>

The following structures

are used:

<programlisting>

```
struct rdatainfo {
    unsigned int    rdi_length; /* length of data */
    unsigned char   *rdi_data; /* record data */
};
```

```
struct rrsetinfo {
    unsigned int    rri_flags; /* RRSET_VALIDATED... */
    unsigned int    rri_rdclass; /* class number */
};
```

```

    unsigned int    rri_rdtype; /* RR type number */
    unsigned int    rri_ttl;    /* time to live */
    unsigned int    rri_nrdatas; /* size of rdatas array */
    unsigned int    rri_nsigs;  /* size of sigs array */
    char            *rri_name;  /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs;  /* individual signatures */
};

```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getrrsetbyname()</function>

gets a set

of resource records associated with a

<parameter>hostname</parameter>,

<parameter>class</parameter>,

and

<parameter>type</parameter>.

<parameter>hostname</parameter>

is

a pointer to a null-terminated string. The

<parameter>flags</parameter>

field is currently unused and must be zero.

</para>

<para>

After a successful call to

<function>lwres\_getrrsetbyname()</function>,

<parameter>\*res</parameter>

is a pointer to an

<type>rrsetinfo</type>

structure, containing a list of one or more

<type>rdatainfo</type>

structures containing resource records and potentially another list of

<type>rdatainfo</type>

structures containing SIG resource records

associated with those records.

The members

<constant>rri\_rdclass</constant>

and

<constant>rri\_rdtype</constant>

are copied from the parameters.

<constant>rr\_ttl</constant>

and

<constant>rr\_name</constant>

are properties of the obtained rreset.

The resource records contained in

<constant>rr\_rdatas</constant>

and

<constant>rr\_sigs</constant>

are

in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rr\_flags</constant>

bitfield. If the RRSET\_VALIDATED bit is set, the data has been DNSSEC validated and the signatures verified.

</para>

<para>

All of the information returned by

<function>lwres\_getrrsetbyname()</function>

is dynamically allocated: the

<constant>rrsetinfo</constant>

and

<constant>rdatainfo</constant>

structures,

and the canonical host name strings pointed to by the

<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by a successful call to

<function>lwres\_getrrsetbyname()</function>

is released by

<function>lwres\_freerrset()</function>.

<parameter>rrset</parameter>

is a pointer to a

<type>struct rrset</type>

created by a call to

<function>lwres\_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getrrsetbyname()</function>

returns zero on success,

and one of the following error

codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET\_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_INVALID</constant></term>

<listitem><para>

a parameter is invalid

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_FAIL</constant></term>

<listitem><para>

other failure

</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>

<listitem><para>

</para></listitem></varlistentry>

</variablelist>

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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.\" \$Id: lwres\_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\*

```

/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/secalg.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdatastruct.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/taskpool.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rbtdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/mutexblock.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/bitstring.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/commandline.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/stdtime.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/dir.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/netdb.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/lib.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/bitstring.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/tests/include/tests/t_api.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/resultclass.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/cert_37.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/serial.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/sig_24.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/tcpmsg.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dname_39.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/base64.h

```

```

* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dname_39.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/wks_11.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rcode.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/tkey.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/int.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/stdtime.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/app.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/x25_19.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/random.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/dbiterator.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/loc_29.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/stdtime.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/syslog.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/fixedname.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/msgcat.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/dir.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/nls/msgcat.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/cert.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/afsdh_18.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/key_25.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/dir.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/dbtable.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rbtdb64.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/gen-unix.h

```

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/dbiterator.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/threads/include/isc/once.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/once.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/include/dns/secproto.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdatasetiter.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/unspec\_103.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/tcpmsg.c

\*

/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/isdn\_20.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rt\_21.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst\_lib.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/callbacks.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/in\_1/px\_26.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/ipv6.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/any\_255/tsig\_250.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rp\_17.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rp\_17.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/lib.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/serial.c

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Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst\_internal.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/dst\_parse.h

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Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/parseint.h  
\*  
/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/syslog.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind9/getaddresses.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/strerror.c  
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Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/resolv/res\_debug.c

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\*/

/\*

\* Get the response to 'request' by filling in 'message'.

\*

\* 'options' is passed

to `dns_message_parse()`. See `dns_message_parse()`

\* for more details.

\*

\* Requires:

\*

\* 'request' is a valid request for which the caller has received the

\* completion event.

\*

\* The result code of the completion event was `ISC_R_SUCCESS`.

\*

\* Returns:

\*

\* `ISC_R_SUCCESS`

\*

\* Any result that `dns_message_parse()` can return.

\*/

Found in path(s):

\* `/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/request.h`

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.\" \$Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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.\"

The following six UNCOMMENTED lines are required.

.\"Os OPERATING\_SYSTEM [version/release]

.\"Dt DOCUMENT\_TITLE [section number] [volume]

.\" This next request is for sections 1, 6, 7 & 8 only

.\" .Sh ENVIRONMENT

.\" .Sh FILES

.\" .Sh EXAMPLES

.\" This next request is for sections 1, 6, 7 & 8 only

.\" (command return values (to shell) and

```
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS
```

Found in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/memcluster.mdoc
```

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```
/*
```

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```

```
*
```

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```

```
*/
```

```
/*
```

```
* This is the header file for the MD5 message-digest algorithm.
```

```
* The algorithm
```

```
is due to Ron Rivest. This code was
```

```
* written by Colin Plumb in 1993, no copyright is claimed.
```

```
* This code is in the public domain; do with it what you wish.
```

```
*
```

```
* Equivalent code is available from RSA Data Security, Inc.
```

```
* This code has been tested against that, and is equivalent,
```

```
* except that you don't need to include two pages of legalese
```

```
* with every copy.
```

```
*
```

```
* To compute the message digest of a chunk of bytes, declare an
```

```
* MD5Context structure, pass it to MD5Init, call MD5Update as
```

```
* needed on buffers full of bytes, and then call MD5Final, which
```

```
* will fill a supplied 16-byte array with the digest.
```

```
*
```

```
* Changed so as no longer to depend on Colin Plumb's `usual.h'
```

```
* header definitions; now uses stuff from dpkg's config.h
```

```
* - Ian Jackson <ijackson@nyx.cs.du.edu>.
```

\* Still in the public domain.

\*/

Found in path(s):

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.\"

.\" \$Id: lwres\_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_resutil.3

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```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/lex.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/gen.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdata.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/socket.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/time.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/name.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rcode.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/task.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/types.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/result.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/name.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/result.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/sockaddr.h
```

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```

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```

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*
```

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```
*
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dlv_65323.h
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/dlv_65323.c
```

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```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

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```

```
-
```

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```
-
```

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-->

<!-- \$Id: lwres\_getipnode.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getipnodebyname</refname>

<refname>lwres\_getipnodebyaddr</refname>

<refname>lwres\_freehostent</refname>

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>

</refnamediv>

<refsynopsisdiv>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_getipnodebyname</function></funcdef>

<paramdef>const char \*name</paramdef>

<paramdef>int af</paramdef>

<paramdef>int flags</paramdef>

<paramdef>int \*error\_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_getipnodebyaddr</function></funcdef>

<paramdef>const void \*src</paramdef>

<paramdef>size\_t len</paramdef>

<paramdef>int



```
af</paramdef>
<paramdef>int *error_num</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freehostent</function></funcdef>
<paramdef>struct hostent *he</paramdef>
</funcprototype>
</functsynopsis>
</refsynopsisdiv>
```

```
<refsect1>
<title>DESCRIPTION</title>
```

```
<para>
These functions perform thread safe, protocol independent
nodename-to-address and address-to-nodename
translation as defined in RFC2553.
</para>
```

```
<para>
They use a
<type>struct hostent</type>
which is defined in
<filename>namedb.h</filename>:
```

```
<programlisting>
struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
</programlisting>
</para>
```

```
<para>
The members of this structure
are:
<variablelist>
<varlistentry><term><constant>h_name</constant></term>
<listitem>
<para>
The official (canonical) name of the host.
</para>
</listitem></varlistentry>
```

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyname()</function>

looks

up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to

specify the types of addresses that are searched

for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI\_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes all known addresses (IPv6 and IPv4) to be returned. If AI\_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ADDRCONFIG</constant></term>

<listitem>

<para>

Only return an IPv6 or IPv4 address if here is an active network interface of that type. This is not currently implemented in the BIND 9 lightweight resolver, and the flag is ignored.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_DEFAULT</constant></term>

<listitem>

<para>

This default sets the

<constant>AI\_V4MAPPED</constant>

and

<constant>AI\_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyaddr()</function>

performs a reverse lookup of address

<parameter>src</parameter>

which is

<parameter>len</parameter>

bytes long.

<parameter>af</parameter>

denotes the protocol family, typically

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

<para>

<function>lwres\_freehostent()</function>

releases all the memory associated with

the

<type>struct hostent</type>

pointer

<parameter>he</parameter>.

Any memory allocated for the

<constant>h\_name</constant>,

<constant>h\_addr\_list</constant>

and

<constant>h\_aliases</constant>

is

freed, as is the memory for the

<type>hostent</type>

structure itself.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

If an error occurs,

<function>lwres\_getipnodebyname()</function>

and

<function>lwres\_getipnodebyaddr()</function>

set

<parameter>\*error\_num</parameter>

to an appropriate error code and the function returns a

<type>NULL</type>

pointer.

The error codes and their meanings are defined in

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

No such host is known.

</para>

</listitem></varlistentry>  
<varlistentry><term><constant>NO\_ADDRESS</constant></term>  
<listitem>  
<para>  
The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.  
</para>  
</listitem></varlistentry>  
<varlistentry><term><constant>TRY\_AGAIN</constant></term>  
<listitem>  
<para>  
A temporary and possibly transient error occurred, such as a failure of a server to respond. The request may succeed if retried.  
</para>  
</listitem></varlistentry>  
<varlistentry><term><constant>NO\_RECOVERY</constant></term>  
<listitem>  
<para>  
An unexpected failure occurred, and retrying the request is pointless.  
</para>  
</listitem></varlistentry>  
</variablelist>  
</para>  
<para>  
<citerefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
translates these error codes to suitable error messages.  
</para>  
</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>RFC2553</refentrytitle>  
</citerefentry>,  
  
<citerefentry>  
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>,  
  
<citerefentry>  
<refentrytitle>lwres\_gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,</div>
<div data-bbox="147 85 250 99" data-label="Text"><citerefentry></div>
<div data-bbox="147 102 688 117" data-label="Text"><refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 120 259 134" data-label="Text"></citerefentry>,</div>
<div data-bbox="147 156 250 170" data-label="Text"><citerefentry></div>
<div data-bbox="147 173 696 188" data-label="Text"><refentrytitle>lwres\_getnameinfo</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 191 259 206" data-label="Text"></citerefentry>,</div>
<div data-bbox="147 227 250 241" data-label="Text"><citerefentry></div>
<div data-bbox="147 244 669 259" data-label="Text"><refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 262 259 276" data-label="Text"></citerefentry>.</div>
<div data-bbox="147 279 207 294" data-label="Text"></para></div>
<div data-bbox="147 297 230 311" data-label="Text"></refsect1></div>
<div data-bbox="147 314 230 329" data-label="Text"></refentry></div>
<div data-bbox="147 350 197 364" data-label="Text">Found</div>
<div data-bbox="151 368 227 383" data-label="Text">in path(s):</div>
<div data-bbox="147 386 818 401" data-label="Text">\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_getipnode.docbook</div>
<div data-bbox="147 403 613 418" data-label="Text">No license file was found, but licenses were detected in source scan.</div>
<div data-bbox="147 439 167 452" data-label="Text">/\*</div>
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<div data-bbox="147 706 167 719" data-label="Text">\*/</div>
<div data-bbox="147 724 167 737" data-label="Text">/\*</div>
<div data-bbox="173 742 444 757" data-label="Text">\* We're going to become the least open</div>
<div data-bbox="173 760 245 774" data-label="Text">\* version.</div>
<div data-bbox="173 777 193 790" data-label="Text">\*/</div>
<div data-bbox="147 812 214 827" data-label="Text">Found in</div>
<div data-bbox="151 830 210 846" data-label="Text">path(s):</div>
<div data-bbox="147 848 644 863" data-label="Text">\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rbtdb.c</div>
<div data-bbox="147 865 613 881" data-label="Text">No license file was found, but licenses were detected in source scan.</div>
<div data-bbox="195 942 558 958" data-label="Page-Footer"><hr/>Open Source Used In IOSXE Releases 17.7.1-RMs 5842</div>

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.\"
.\" $Id: lwres_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
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*/
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\*

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.\"

.\" \$Id: lwres.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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; \$Id: bindevt.mc,v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase

= 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND\_ERR\_MSG

Language=English

% 1

.

MessageId=0x2

Severity=Warning

Facility=Application

SymbolicName=BIND\_WARN\_MSG

Language=English

% 1

.

MessageId=0x3

Severity=Informational

Facility=Application  
SymbolicName=BIND\_INFO\_MSG  
Language=English  
%1  
.

Found in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/win32/bindevt/bindevt.mc

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.\" \$Id: bitncmp.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_gabn.html

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres.docbook

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.html

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_inetntop.html

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook

\*

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/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_gnba.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_gai_strerror.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_gethostent.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_hstrerror.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_getnameinfo.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_noop.docbook
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_getnameinfo.docbook
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_hstrerror.docbook
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_buffer.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_getipnode.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_noop.html
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_packet.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_context.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_resutil.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_buffer.docbook
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_config.html
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/man/lwres_packet.docbook
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*
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```
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/log.c
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdatalist.c
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/log.h
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/resolver.h
```

```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
```

```

* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/print.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/rt_21.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/db.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/in_1/px_26.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/afbdb_18.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/tkey.c
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.\" used where appropriate. This next request is
.\" for sections 2 and 3 function return values only.
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS

```



.\" .Sh HISTORY

.\" .Sh BUGS

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/resolv/res\_mkquery.c

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```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/gethostent.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/dns_nw.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/dns.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/dns_gr.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/inet/nsap_addr.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/gen.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/lcl_ng.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/logging_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/isc/logging.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/inet/inet_ntop.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/resolv/res_update.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/lcl.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/resolv/res_mkupdate.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/gen_gr.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/getgrent.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/nis.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/nameser/ns_print.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/dns_p.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/include/isc/logging.h
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\*

/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/inet/inet\_network.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/inet/inet\_ntoa.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/inet/inet\_makeaddr.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/inet/inet\_netof.c

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-->

```
<!-- $Id: lwres_config.docbook,v
1.1 2004/11/03 01:39:06 abstine Exp $ -->
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<refentry>
<refentryinfo>
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<date>Jun 30, 2000</date>
</refentryinfo>
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<refmeta>
<refentrytitle>lwres_config</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>
```

```
<refnamediv>
<refname>lwres_conf_init</refname>
<refname>lwres_conf_clear</refname>
<refname>lwres_conf_parse</refname>
<refname>lwres_conf_print</refname>
<refname>lwres_conf_get</refname>
<refpurpose>lightweight resolver configuration</refpurpose>
</refnamediv>
```

```
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
```

```

void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const
char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_clear()</function>
frees up all the internal memory used by
that
<type>lwres_conf_t</type>
structure in resolver context
<parameter>ctx</parameter>.
</para>
<para>
<function>lwres_conf_parse()</function>
opens the file

```



<parameter>filename</parameter>  
and parses it to initialise the resolver context  
<parameter>ctx</parameter>'s  
<type>lwres\_conf\_t</type>  
structure.

</para>

<para>

<function>lwres\_conf\_print()</function>

prints

the

<type>lwres\_conf\_t</type>

structure for resolver context

<parameter>ctx</parameter>

to the

<type>FILE</type>

<parameter>fp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_conf\_parse()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

if it successfully read and parsed

<parameter>filename</parameter>.

It returns

<errorcode>LWRES\_R\_FAILURE</errorcode>

if

<parameter>filename</parameter>

could not be opened or contained incorrect

resolver statements.

</para>

<para>

<function>lwres\_conf\_print()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

unless an error occurred when converting the network addresses to a  
numeric host address string.

If this happens, the function returns

<errorcode>LWRES\_R\_FAILURE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

```
<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>
</citerefentry>,
<citerefentry>
<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>
</citerefentry>.
</refsect1>
<refsect1>
<title>FILES</title>
<para>
<filename>/etc/resolv.conf</filename>
</para>
</refsect1>
</refentry>
```

#### Found

in path(s):

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/man/lwres\_config.docbook

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mx\_15.h

\*

/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/null\_10.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mf\_4.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/md\_3.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/soa\_6.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mf\_4.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/cname\_5.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/rdata/generic/cname\_5.c

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/include/isc/eventclass.h

\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/win32/version.c

```

* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/unix/include/isc/time.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/iscconf/win32/version.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind9/win32/version.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/ns_2.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/txt_16.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdatatype.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/proforma.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/thread.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/version.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/event.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/boolean.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mb_7.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/threads/condition.c
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/iscconf/version.c
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/time.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/error.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/condition.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/util.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/mr_9.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/rdata/generic/ns_2.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/threads/include/isc/thread.h
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* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/win32/version.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/rdataclass.h

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.\" $Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/getprotoent\_r.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/gethostent\_r.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/getnetgrent\_r.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/getservent\_r.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/irs/getpwent\_r.c  
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/opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/ipv6.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/unix/include/lwres/net.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/iscconf/include/iscconf/cfg.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/threads/mutex.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/unix/errno2result.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/errno2result.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/entropy.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/lwres/lwres\_gnba.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/file.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/dns/sec/dst/gssapi\_link.c  
\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/isc/win32/fsaccess.c  
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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/dst/dst\_internal.h  
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```
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/ssu.h
*
/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/threads/thread.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/ssu.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/peer.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/sdb.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/include/isc/string.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/include/dns/peer.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/lwres/context.c
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/isc/win32/include/isc/stat.h
* /opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/dns/lookup.c
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/opt/cola/permits/1210918483_1633472971.85/0/lib-tar/lib/bind/irs/irp_ho.c
```

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\* /opt/cola/permits/1210918483\_1633472971.85/0/lib-tar/lib/bind/nameser/ns\_verify.c

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```
Gnomovision version 69, Copyright (C) 19yy name of author
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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 modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; 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.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!  
This package was debianized by Jean Pierre LeJacq  
<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>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,  
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,  
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also obtain it by writing to the Free Software Foundation, Inc., 51

Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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. 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.

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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

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Re: [Cracklib-devel] cracklib license

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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 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
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> Sent: Monday, October 01, 2007 8:33 PM

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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

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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,

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Re: [Cracklib-devel] cracklib license  
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Attachments: Message as HTML

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Attachments: Message

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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.  
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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  
>  
> 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

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

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-----

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  
>  
> 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

## 1.499 gawk 4.2.1-2.el8

### 1.499.1 Available under license :

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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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```
/* PUBLIC DOMAIN Oct 2002 <marc@snafu.org> */
```

Found in path(s):

```
* /opt/cola/permits/1210918154_1633473130.1/0/glibc-tar/glibc/test/test_pthread_kill.c
```

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```
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## 1.502 libcom-err 1.45.6-1.el8

### 1.502.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <[tytso@mit.edu](mailto:tytso@mit.edu)> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

```

$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

```

install-strip: install

install-shlibs-strip:: install-shlibs

```

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$BSDLIB_INSTALL_DIR)/$(BSD_LIB)

```

```

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

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--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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```

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Theodore Ts'o  
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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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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 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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## 1.507 six 1.15.0

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## 1.510 libmodulemd 2.9.4-2.el8

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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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5. A program that contains no derivative of any portion of the



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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.

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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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library  
'Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

# 1.514 tar 2:1.30-5.el8

## 1.514.1 Available under license :

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The

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## 1.519 findutils 1:4.6.0-20.el8

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```
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```

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

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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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CP#vMOoYL?6]2z({CLYj0
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BS=)d ;\*!;\_>KfB }&ea)F~H#@|DExb  
Fw=|  
;}8SPT"\_p;27 \*D-sS|11np#\_(~\*uM%S61opMG`B=gD7~`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;\*!;\_>KfBqxY(F|0.Ve%Q?f\_+T@Uo)2fgYZ

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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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;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d

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## 1.525 rpm-libs 4.14.3-4.el8

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```

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## 1.528 libxml2 2.9.7-9.el8

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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## 1.530 zlib 1.2.11-17.el8

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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# 1.533 crontabs 1.11-16.20150630git.el8

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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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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.

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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.

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.

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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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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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## 1.537 libssh 0.9.4-2.el8

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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.)

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,

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
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Andric, Dimitry  
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Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider

Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
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Cheloha, Scott  
ek, Vtzslav  
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Corzine, Deven T.  
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Dill, David  
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Hunter, Michael T.  
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Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
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Miller, Todd C.  
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Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
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Nieusma, Jeff  
Nikitser, Peter A.  
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Ouellet, Jean-Philippe  
Paquet, Eric  
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Pasteurs, Frederic  
Percival, Ted  
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Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
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Schoenfeld, Patrick  
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Walsh, Dan  
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Wieringen, Marco van  
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Winiger, Gary  
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The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez,  
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Fontenelle, Rafael  
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# 1.539 python-setuptools 39.2.0-6.el8

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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:

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.

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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## 1.545 libuser 0.62-23.el8

### 1.545.1 Available under license :

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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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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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# 1.546 cyrus-sasl 2.1.27-5.el8

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 * Rob Earhart
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a)

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^L

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It is safest to attach them to the start of each source file  
to most

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<one line to give the library's name and a brief idea of what it does.>

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

## 1.549 dnf 4.4.2-2.el8

### 1.549.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_io_pak.c - ERP IO packet handling source file
*
* August 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_io_pak.c
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_cfg_parser.c - ERP config parser code
*
* August 2011
*
* Copyright (c) 2011-2012, 2016-2017, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_cfg_parser.c
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_io.c - ERP IO common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_io.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_ridb.c
* G.8032 Ring/Instance Database
*
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2014, 2016, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_ridb.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_ctrl_sm.c
* G.8032 ERP Controller state machine
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_ctrl_sm.c
No license file was found, but licenses were detected in source scan.
```

```
#
```



```
# erp_ring.zn - Oxide rules file
#
# June 2018, Gangadhara Valluri
#
# Copyright (c) 2018 by cisco Systems, Inc.
# All rights reserved.
#
```

```
name: erp_ring;
type: erp_ring_t;
type: erp_instance_t;
type: erp_port_id_t;
type: erp_profile_t;
type: erp_instance_stats_t;
type: erp_port_info_t;
type: erp_l2req_state_t;
type: erp_raps_encap_t;
type: xos_bitlist_handle;
type: xos_list_t;
type: xos_list_element_t;
```

Found in path(s):

\* /opt/cola/permits/1210918790\_1633473603.25/0/dnf-tar/src/erp\_ring.zn

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* erp\_common.c - ERP common code

\*

\* July 2010, Viet Nguyen

\*

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\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210918790\_1633473603.25/0/dnf-tar/src/erp\_common.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* erp\_io\_sm.c

\* G.8032 ERP IO state machine

\*

\* July 2010, Viet Nguyen

\*

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\*-----

\*/

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\* /opt/cola/permits/1210918790\_1633473603.25/0/dnf-tar/src/erp\_io\_sm.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* erp\_ctrl.sm - Ethernet Ring Protection Controller state machine

\*

\* June 2010, Viet Nguyen

\*

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\* All rights reserved.

\*-----

\*/

XOS\_SM\_EVENTLIST\_BEGIN

XOS\_SM\_EVENT(init)

XOS\_SM\_EVENT(clear)

XOS\_SM\_EVENT(fs)

XOS\_SM\_EVENT(aps\_fs)

XOS\_SM\_EVENT(local\_sf)

XOS\_SM\_EVENT(local\_clear\_sf)

XOS\_SM\_EVENT(aps\_sf)

XOS\_SM\_EVENT(aps\_ms)

XOS\_SM\_EVENT(ms)

XOS\_SM\_EVENT(wtr\_expires)

XOS\_SM\_EVENT(wtb\_expires)

XOS\_SM\_EVENT(aps\_nr\_rb)

XOS\_SM\_EVENT(aps\_nr)

XOS\_SM\_EVENT(ack)

XOS\_SM\_EVENTLIST\_END

/\*

\* State machine states

\* - Init,

\* A\_Idle,

\* B\_Protection,

\* C\_ManualSwitch,

\* D\_ForcedSwitch,

\* E\_Pending

\*/

XOS\_SM\_STATE\_BEGIN(init)

XOS\_SM\_TRANSITION(init, erp\_ctrl\_sm\_action\_init,

```

init) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_init_ack, E_Pending)
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(A_Idle)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,
A_Idle) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_A_Idle_ack, A_Idle)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_local_clear_sf,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null,
B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs,
C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,

```

```

        C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf,
erp_ctrl_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf,
        C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_C_ManualSwitch_ack,
        C_ManualSwitch)
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, D_ForcedSwitch)
/* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_D_ForcedSwitch_ack,
        D_ForcedSwitch)
XOS_SM_STATE_END

```

```

XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_ctrl_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_ctrl_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_ctrl_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_ctrl_sm_action_local_sf,
        E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_ctrl_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_ctrl_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_ctrl_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_ctrl_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_ctrl_sm_action_wtr_expires,
        E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_ctrl_sm_action_wtb_expires,
        E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_ctrl_sm_action_aps_nr_rb,

```

```
E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_ctrl_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_ctrl_sm_action_E_Pending_ack, E_Pending)
XOS_SM_TRANSITION(init, erp_ctrl_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_ctrl.sm
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_pdb.h
* G.8032 Profile Database
*
* July 2010, Mark Bilstad
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_pdb.c
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_pd_caps_stubs.c - ERP Controller stub file
*
* July 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_pd_caps_stubs.c
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_io.sm - Ethernet Ring Protection Controller state machine
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2011, 2019 by Cisco Systems, Inc.
```

\* All rights reserved.

\*-----

\*/

XOS\_SM\_EVENTLIST\_BEGIN

XOS\_SM\_EVENT(init)  
XOS\_SM\_EVENT(clear)  
XOS\_SM\_EVENT(fs)  
XOS\_SM\_EVENT(aps\_fs)  
XOS\_SM\_EVENT(local\_sf)  
XOS\_SM\_EVENT(local\_clear\_sf)  
XOS\_SM\_EVENT(aps\_sf)  
XOS\_SM\_EVENT(aps\_ms)  
XOS\_SM\_EVENT(ms)  
XOS\_SM\_EVENT(wtr\_expires)  
XOS\_SM\_EVENT(wtb\_expires)  
XOS\_SM\_EVENT(aps\_nr\_rb)  
XOS\_SM\_EVENT(aps\_nr)  
XOS\_SM\_EVENT(ack)

XOS\_SM\_EVENTLIST\_END

/\*

\* State machine states

\* - Init,

\* A\_Idle,

\* B\_Protection,

\* C\_ManualSwitch,

\* D\_ForcedSwitch,

\* E\_Pending

\*/

XOS\_SM\_STATE\_BEGIN(init)

XOS\_SM\_TRANSITION(init, erp\_io\_sm\_action\_init,  
init) /\* wait ack \*/  
XOS\_SM\_TRANSITION(ack, erp\_io\_sm\_action\_init\_ack, E\_Pending)

XOS\_SM\_STATE\_END

XOS\_SM\_STATE\_BEGIN(A\_Idle)

XOS\_SM\_TRANSITION(clear, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(fs, erp\_io\_sm\_action\_fs, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(aps\_fs, erp\_io\_sm\_action\_aps\_fs, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(local\_sf, erp\_io\_sm\_action\_local\_sf, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(local\_clear\_sf, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(aps\_sf, erp\_io\_sm\_action\_aps\_sf, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(aps\_ms, erp\_io\_sm\_action\_aps\_ms, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(ms, erp\_io\_sm\_action\_ms, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(wtr\_expires, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/  
XOS\_SM\_TRANSITION(wtb\_expires, erp\_io\_sm\_action\_null, A\_Idle) /\* wait ack \*/

```

XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, A_Idle) /* wait ack
*/
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, A_Idle) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_A_Idle_ack, A_Idle)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(B_Protection)
XOS_SM_TRANSITION(clear, erp_io_sm_action_null, B_Protection)
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_local_clear_sf, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, B_Protection) /* wait
ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, B_Protection) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, B_Protection) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_B_Protection_ack, B_Protection)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(C_ManualSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, C_ManualSwitch)
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms,
C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_null, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, C_ManualSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_C_ManualSwitch_ack, C_ManualSwitch)
XOS_SM_TRANSITION(init, erp_io_sm_action_init, init) /* wait ack */
XOS_SM_STATE_END

XOS_SM_STATE_BEGIN(D_ForcedSwitch)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_null, D_ForcedSwitch)

```

```
/* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_null, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, D_ForcedSwitch) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_D_ForcedSwitch_ack, D_ForcedSwitch)
XOS_SM_STATE_END
```

```
XOS_SM_STATE_BEGIN(E_Pending)
XOS_SM_TRANSITION(clear, erp_io_sm_action_clear, E_Pending) /* wait ack */
XOS_SM_TRANSITION(fs, erp_io_sm_action_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_fs, erp_io_sm_action_aps_fs, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_sf, erp_io_sm_action_local_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(local_clear_sf, erp_io_sm_action_null, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_sf, erp_io_sm_action_aps_sf, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_ms, erp_io_sm_action_aps_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ms, erp_io_sm_action_ms, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtr_expires, erp_io_sm_action_wtr_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(wtb_expires, erp_io_sm_action_wtb_expires, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr_rb, erp_io_sm_action_aps_nr_rb, E_Pending) /* wait ack */
XOS_SM_TRANSITION(aps_nr, erp_io_sm_action_aps_nr, E_Pending) /* wait ack */
XOS_SM_TRANSITION(ack, erp_io_sm_action_E_Pending_ack, E_Pending)
XOS_SM_STATE_END
```

Found in path(s):

\* /opt/cola/permits/1210918790\_1633473603.25/0/dnf-tar/src/erp\_io.sm

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* erp_debug.c - G.8032 Ethernet Ring Protection debug routines
*
* June 2010, Viet Nguyen
*
* Copyright (c) 2010-2012, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210918790\_1633473603.25/0/dnf-tar/src/erp\_debug.c

No license file was found, but licenses were detected in source scan.

```
/*
```



```
*-----
* erp_ctrl_ha.c - ERP Controller HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_ctrl_ha.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_ctrl.c - ERP Controller common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2014, 2016-2019, 2021 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_ctrl.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_io_ha.c - ERP IO HA common code
*
* Sep 2010, Ramachandran Ramanujalu
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210918790_1633473603.25/0/dnf-tar/src/erp_io_ha.c
```

## 1.550 libmetalink 0.1.3-7.el8

## 1.550.1 Available under license :

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## 1.551 gnutls 3.6.14-7.el8\_3

### 1.551.1 Available under license :

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Version 2.1, February 1999

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Any executables

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source code for the Library including whatever

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- a) Accompany the combined library with a copy of the same work

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## 1.552 ima-evm-utils 1.1-5.el8

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Version 3, 29 June 2007

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## 1.556 kmod-libs 25-16.el8

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That's all there is to it!

# 1.558 python3-libcomps 0.1.11-4.el8

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Version 2, June 1991

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lib/krb5/kdb/kdb\_convert.c  
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lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
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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  
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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  
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kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
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lib/kdb/kdb\_log.c  
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## 1.561 paramiko 2.7.2

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  the Front-Cover
  Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample
```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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```

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## 1.564 popt 1.16-14.el8

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```

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

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```
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```

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

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## 1.576 glibc-common 2.28-145.el8

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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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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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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.

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## 1.585 json-c 0.13.1-0.3.el8

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# 1.586 libmnl 1.0.4-6.el8

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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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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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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## 1.587 libyaml 0.1.7-5.el8

### 1.587.1 Available under license :

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## 1.588 npth 1.5-4.el8

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Version 2.1, February 1999

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

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```
/*
 * pw.c
 *
 * AAA password routines, adopted from IOX
 *
 * January 2005, Naiming Shen
 * July 2005, Craig MacFarlane
 *
 * Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
 * All rights reserved.
 *
 *-----
 * pw.c -- password encryption/decryption routines
 *
 * May 08 2000, Mark Eklund
 *
 * Copyright (c) 2002-2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

```
* /opt/cola/permits/1210918697_1633473312.67/0/pw-tar/pw/src/pw.c
```

No license file was found, but licenses were detected in source scan.

```
# All rights reserved.
```

Found in path(s):

```
* /opt/cola/permits/1210918697_1633473312.67/0/pw-tar/pw/Makefile.bin
```

No license file was found, but licenses were detected in source scan.

```
/*
 * pw_defs.h
 *
 * Password defines.
 *
 * July 2005, Craig MacFarlane
 *
 * Copyright (c) 2005, 2007, 2010, 2014, 2018-2019 by cisco Systems, Inc.
 * All rights reserved.
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1210918697_1633473312.67/0/pw-tar/pw/include/pw_defs.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * pw.h
 *
 * Password routines, adopted from IOX
 *
 * May 2000 Mark Eklund
 * July 2005, Craig MacFarlane
 *
 * Copyright (c) 2000-2005, 2007, 2010, 2014, 2018 by cisco Systems, Inc.
 * All rights reserved.
 */
/*
 * edt: * pw_type_t
 * Possible formats of saving the password in SysDB.
 *
 * item: PW_TYPE_CLEAR
 * The password in the clear, visible for anybody.
 *
 * item: PW_TYPE_1WAY
 * The password encrypted to an MD5 digest. This is not reversible.
 *
 * item: PW_TYPE_1WAY_2
 * The password encrypted to an sha256 digest. This is not reversible.
 *
 * item: PW_TYPE_2WAY
 * The Cisco type 7 password encryption. This is reversible
 * by both Cisco products and several public domain programs.
 */
```

Found in path(s):

```
* /opt/cola/permits/1210918697_1633473312.67/0/pw-tar/pw/include/pw.h
```

No license file was found, but licenses were detected in source scan.

```
/*
 * pw_const.tph
 *
 * Copyright (c) 2019 by Cisco Systems, Inc.
 * All rights reserved.
 */
```

```
@DIRECTIVES{
    auto_import_stg = false;
    skip_auto_tdl_include = true;
}@
```

```
@IMPORT_STG{
```

```

import "constant_gen.stg";
}@

@TDL{
import "pw_const.tdl"
}@

@CODE{

#ifdef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

    $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@

Found in path(s):
* /opt/cola/permits/1210918697_1633473312.67/0/pw-tar/pw/include/pw_const.tph

```

# 1.590 log-rotate 3.14.0-4.el8

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# 1.592 python36 3.6.8-

## 2.module\_el8.3.0+389+6a62c88d

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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, which became

Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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mechanism for linking with the

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

## 1.603 libcurl 7.61.1-17.el8

### 1.603.1 Available under license :

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## 1.604 pycparser 2.20

### 1.604.1 Available under license :

pycparser -- A C parser in Python

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# 1.605 basesystem 11-5.el8

## 1.605.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
%global distroname %(source /etc/os-release; echo ${REDHAT_SUPPORT_PRODUCT})
```

Summary: The skeleton package which defines a simple %{distroname} system

Name: basesystem

Version: 11

Release: 5%{?dist}

License: Public Domain

Group: System Environment/Base

Requires(pre): setup filesystem

BuildArch: noarch

```
%description
```

Basesystem defines the components of a basic %{distroname} system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

```
%prep
```

```
%build
```

```
%install
```

```
%clean
```

```
%files
```

```
%defattr(-,root,root,-)
```

```
%changelog
```

```
* Tue May 07 2019 CentOS Sources <bugs@centos.org> - 11-5.el8.centos
```

```
- adjust description
```

```
- adjust summary
```

```
* Wed Feb 07 2018 Fedora Release Engineering <releng@fedoraproject.org> - 11-5
```

```
- Rebuilt for https://fedoraproject.org/wiki/Fedora\_28\_Mass\_Rebuild
```

```
* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org>
```



- 11-4
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_27\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_27_Mass_Rebuild)
- \* Fri Feb 10 2017 Fedora Release Engineering <releng@fedoraproject.org> - 11-3
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_26\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_26_Mass_Rebuild)
- \* Wed Feb 03 2016 Fedora Release Engineering <releng@fedoraproject.org> - 11-2
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_24\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_24_Mass_Rebuild)
- \* Thu Jul 09 2015 Ondrej Vasik <ovasik@redhat.com> 11-1
- automatically determine OS name at build time (#1195396)
- \* Wed Jun 17 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-11
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_23\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild)
- \* Sat Jun 07 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-10
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_21\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild)
- \* Sat Aug 03 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-9
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_20\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild)
- \* Wed Feb 13 2013
- Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-8
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_19\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild)
- \* Wed Jul 18 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-7
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_18\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild)
- \* Thu Jan 12 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-6
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_17\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild)
- \* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
- fix FTBFS typo (#715640), add disttag
- \* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_15\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild)
- \* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_12\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild)
- \* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
- Rebuilt for [https://fedoraproject.org/wiki/Fedora\\_11\\_Mass\\_Rebuild](https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild)
- \*
- Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
- Bump version and rebuild for Fedora 10 (#451289)
- \* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1

- Cleanup per package review (#225608)
- \* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
  - rebuild
- \* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt
- \* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>
  - rebuilt
- \* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt
- \* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt
- \* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>
  - bump rev
- \* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
- \* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
- \* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
- \* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild
- \* Tue Jun 6 2000 Bill Nottingham <notting@redhat.com>
  - rebuild. Wheee.
- \* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 4)
- \* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
  - don't require rpm (breaks dependency chain)
- \* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
  - require rpm
- \* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

\* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>

- build root

\* Mon Apr 27 1998 Prospector System <bugs@redhat.com>

- translations modified for de, fr, tr

\* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>

- made a noarch package

Found in path(s):

\* /opt/cola/permits/1210918301\_1633472794.6/0/basesystem-11-5.el8-1.src.rpm-cosi-expand-archive-szXkL2oX/basesystem.spec

## 1.606 vim 2:8.0.1763-15.el8

## 1.607 bzip2 1.0.6-26.el8

### 1.607.1 Available under license :

-----  
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

# 1.608 fdisk 2.32.1-26.el8

## 1.608.1 Available under license :

```
7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({ CLYj0
LFIU<>Q& }7!C}e6]]e`M,J}.dE,4hVmp
RsTk!|r!Quo1OE|FfP+A }XBT9 \<
0<P9{>s\36R)m.S(bCb7S<DP(`ka")^oy`r)7I%tU6@AS.SMoOfF3whA!!WIMcK')e/eJ1F
g|B|W|j>jf_|JPp]oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#!$*w!:499X1il:"P+=22cmr3J}/0o9nlB?|N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]~uf$Ngl]"_W[0;
OXy[aB*"/_U~fQHO(3[b%o )+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxfIC
zCTJtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?)zp(;H!E2Nz'WW_WmA,
FSYZE*-exTWFt#|
rd>k|R>aXrvXS~"9=U$puaqQb;|k,RD5(fu&#
?)w!nz>SbvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%S61opMG
1%Qs|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[
BS=)d ;*!;_>KfB }&ea)F~H#@|DExb
Fw=|
;}8SPT"_p;27 *,D-s|11np#_(~*uM%S61opMG`B=gD7~`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXx+s|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_+T@Uo)2fgYZ
```

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

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```
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```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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7zXZF!t/o."w[7gp<G

H:Oed 18uyMQ9|FO6

87I8.mhGl^eb\_X/UQKuB

)Cdk!B\_M/tw|11np#\_(~\*'uM%S61opMG`YfRXvY[R+t[ BS=)d

;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxYm+sS|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;\*!;\_>KfBqxY(F|0.Ve%Q?  
\*sS|11np#\_(~\*u7gi){IgYZ

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# 1.609 iproute 5.9.0-1.el8

## 1.609.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*-----  
* route_map_globs.c  
*  
* This file has the route map globals common to blob (for lc images)  
* and routing process(for routing images).  
*  
* Copyright (c) 2002-2005, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

`/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_globs.c`

No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* Registry for routing context for RP and LC common code.  
*  
* September 2009, Derek Yeung  
*  
* Copyright (c) 2009 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

`/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routing_context_registry.h`

No license file was found, but licenses were detected in source scan.

```
/* $Id: iprouting_setup.c,v 3.4.4.1 1996/06/28 01:21:03 snyder Exp $
```

```

* $Source: /release/112/cvs/Xsys/iprouting/iprouting_setup.c,v $
*-----
* IP Routing setup commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2002, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log: iprouting_setup.c,v $
* Revision 3.4.4.1 1996/06/28 01:21:03 snyder
* CSCdi61601: fix some char * that should have been char [] in iprouting
* Branch: California_branch
*
*     You get space back for the pointer
*     You get space back for each reference
*     You get bytes out of data space
*
* Revision 3.4 1996/03/09 22:56:04 widmer
* CSCdi47890: HTTP server doesnt work
* Add HTTP server
*
* Revision 3.3 1995/11/28 03:58:38 widmer
*
* CSCdi44175: Add setup_printf to replace sprintf in setup code
*
* Revision 3.2 1995/11/17 17:34:53 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:42 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:55 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_setup.c
```

No license file was found, but licenses were detected in source scan.

```
/*
```

```

*-----
* network_constants.h -- General Networking Constants
*

```

```
* June 2002, interest-idb
*
* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/network_constants.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* iprouting_parse_blob.c
*
* Parser support for IP ROUTING .
* This file implements proxy eols that call iprouting parser remote
* registries.
*
* September 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_parse_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_map_ionblob.c -- Route Maps support for ION Blob
*
* October 2001, Siva Yaragalla
*
* Copyright (c) 2001-2009, 2011, 2013, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_ionblob.c
No license file was found, but licenses were detected in source scan.
```

```
/*$Id: cfg_router_maximum-paths.h,v 3.2 1995/11/17 17:32:11 hampton Exp $
*$Source: /swt/cherf.111/ios/sys/iprouting/cfg_router_maximum-paths.h,v $
*-----
```



```

* cfg_router_maximum-paths.h
*
* <July> 1994 rchandra
*
* Copyright (c) 1994-2016, 2019 by cisco Systems, Inc.
* All rights reserved.
* -----
* $Log: cfg_router_maximum-paths.h,v $
* Revision 3.2 1995/11/17 17:32:11 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:39 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:53 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:44 hampton
* Bump version numbers from 1.x to 2.x.
*
* -----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_maximum-paths.h

```

No license file was found, but licenses were detected in source scan.

```

/*
* -----
* cfg_routetag_list.h -- Route Tag List Parser Command
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2001, 2004, 2007-2008, 2011, 2013 by cisco Systems, Inc.
* All rights reserved.
*
* -----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routetag_list.h

```

No license file was found, but licenses were detected in source scan.

```

/*

```

```
*-----
* topo_aware.h - Define multi-topology awareness
*
* March 2005, Les Ginsberg
*
* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/topo_aware.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: cfg_ip_prefixlist.h,v 3.1.2.2 1998/02/23 19:43:42 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/cfg_ip_prefixlist.h,v $
*-----
* cfg_ip_prefix.h -- IP Prefix List Parser Commands
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2001, 2004, 2007-2008, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_ip_prefixlist.h,v $
* Revision 3.1.2.2 1998/02/23 19:43:42 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.1 1997/12/17 21:36:57 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_map_registry.h -- Registration Points for Route Maps support in ION
*
```

```
* July 2001, Siva Yaragalla
*
* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/route_map_registry.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routing_context.c
*
* This file has global definitions for routing context support
* common to blob and iprouting proceses.
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routing_context.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_routemap_match_ip.h -- IP specific route-map clauses
*
* March 1995 Tony Li
*
* Copyright (c) 1995-1998, 2000-2002, 2004-2005, 2007-2010, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_match_ip.h
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
*-----
* routemap_ios_chain.c -- Route-map generic ios parse chains that
* will be in both RP and VIP/LC
*
* July 1998, Wilber Su
*
* Copyright (c) 1998, 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_ios_chain.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* policylist_blob.c - Routines to handle policy-list commands.
*           Common for IOS and ION Blob.
*
* November 2003, Siva Yaragalla
*
* Copyright (c) 2003-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/policylist_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* route3_blob.c
*
* IOS and blob specific route3.c parser functions.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route3_blob.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
```

```
* $Source$
*-----
* CFG_ROUTER_TABLE - MAP.H
*
* Copyright (c) 1993-1996, 1999, 2001, 2003, 2005-2019 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_table-map.h  
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* ip_prefixlist_ionblob.c - IP Prefix Lists support for IONized clients
*
* January 2002, Siva Yaragalla
*
* Copyright (c) 2002-2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ionblob.c  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* IP routing clear commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-1999, 2001-2002, 2004-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/exec\_clear\_ip\_routing.h  
No license file was found, but licenses were detected in source scan.

```
/*
*-----
* cfg_int_ip2_vnet_routing.h
*
* Interface VNET submode configuration IP commands.
*
* Copyright (c) 2009-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_int\_ip2\_vnet\_routing.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* exec_show_ip_extcommunity-list.h
*
* April 2000, Rex Fernando
*
* Copyright (c) 2000, 2002-2003, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/exec\_show\_ip\_policylist.h  
No license file was found, but licenses were detected in source scan.

```
/*-----
* route3_ionized.c
*
* ION specific route3.c parser functions.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/route3\_ionized.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_debug.c -- Routemap debugging support

\*

\* July 1998, Wilber Su

\*

\* Copyright (c) 1998, 2004, 2006-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/routemap\_debug.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* route\_map\_ion.h - Route map support data structures specific to ION.

\*

\* January 2002, Siva Yaragalla

\*

\* Copyright (c) 2002-2009, 2011 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/route\_map\_ion.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* cfg\_router\_maximum-paths.h

\*

\* 22-May-2016, Les Ginsberg

\*

\* Copyright (c) 2016 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_maximum-sec-paths.h  
No license file was found, but licenses were detected in source scan.

```
/*-----  
* router_af_parse.h  
*  
* Route Address Family parser functions declarations.  
*  
* May 2002, Victor Kamensky  
*  
* Copyright (c) 2002, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/router\_af\_parse.h  
No license file was found, but licenses were detected in source scan.

```
/*-----  
* C F G _ R O U T E R _ B F D . H  
*  
* Copyright (c) 2004-2008, 2010-2011, 2015 by cisco Systems, Inc.  
* All Rights Reserved  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_bfd.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_router_timers.h,v 3.2.60.1 1996/04/15 21:17:46 bcole Exp $  
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_timers.h,v $  
*-----  
* C F G _ R O U T E R _ T I M E R S . H  
*  
* Copyright (c) 1992-1999, 2002, 2004-2011, 2018 by cisco Systems, Inc.  
* All Rights Reserved  
*-----  
* $Log: cfg_router_timers.h,v $  
* Revision 3.2.60.1 1996/04/15 21:17:46 bcole  
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature  
* commit  
* Branch: California_branch  
*  
* Revision 3.2 1995/11/17 17:32:28 hampton  
* Remove old entries from the RCS header logs.
```



```
*
* Revision 3.1 1995/11/09 12:06:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:04 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:13 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_timers.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* router_af_actions.h
*
* Router Address Family action declarations.
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002, 2004-2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/router_af_actions.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* msg_iproute.c - Message file for iproute facility
*
* July 17, 1990, Kevin Paul Herbert
*
* Copyright (c) 1990-2013, 2015-2017, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/msg_iproute.rc
```

No license file was found, but licenses were detected in source scan.

```
/*-----  
* ip_stats.c - IP for topology aware stats  
*  
* April 2006, Jonsky Hsu  
*  
* Copyright (c) 2006-2010 by cisco Systems, Inc.  
* All rights reserved.  
*  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ip\_stats.c

No license file was found, but licenses were detected in source scan.

```
/* $Id$  
* $Source$  
*-----  
* protofltr.c -- Routing protocol filter manager support routines  
*  
* Jan 2006, Mercia Zheng  
*  
* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/protofltr.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_ip_routing_routing.h,v 3.3.46.3 1996/08/12 16:03:33 widmer Exp $  
* $Source: /release/112/cvs/Xsys/iprouting/cfg_ip_routing_routing.h,v $  
*-----  
* IP routing routing commands  
*  
* May 1993, Robert Widmer  
*  
* Copyright (c) 1993-2000, 2002-2009 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log: cfg_ip_routing_routing.h,v $
```

- \* Revision 3.3.46.3 1996/08/12 16:03:33 widmer
- \* CSCdi65725: Create Eolns macro that defaults csb->which to 0
- \* Branch: California\_branch
- \* Add Eolns and Nvgenns macro that default csb->which to 0
- \* Remove hidden keyword help strings
- \*
- \* Revision 3.3.46.2 1996/06/17 23:33:31 hampton
- \* Implement the long sought parser "default" keyword. [CSCdi60510]
- \* Branch: California\_branch
- \*
- \* Revision 3.3.46.1 1996/04/15 21:17:41 bcole
- \*
- CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
- \* commit
- \* Branch: California\_branch
- \*
- \* Revision 3.3 1995/12/10 00:42:36 pst
- \* CSCdi38750: Allow static routes with both next hop and interface
- \* also add "permanent" keyword for non-flapping static routes
- \*
- \* Revision 3.2 1995/11/17 17:31:40 hampton
- \* Remove old entries from the RCS header logs.
- \*
- \* Revision 3.1 1995/11/09 12:04:59 shaker
- \* Bump version numbers from 2.x to 3.x.
- \*
- \* Revision 2.4 1995/10/23 18:33:19 pst
- \* CSCdi42608: allow IP cache ager to be shut down, make the
- \* "ip cache-ager" and "ip cache-invalidate-delay"
- \* commands internal only.
- \*
- \* Revision 2.3 1995/07/13 21:39:05 ahh
- \* CSCdi36962: UDP parsing of tacacs-ds port name broken
- \* Restore "tacacs-ds" as a keyword, but hide it and map it to TACACS\_PORT
- \* for backwards compatibility.
- \*
- \* Revision 2.2 1995/07/11 21:52:08 raj
- \* CSCdi36510: parser doesnt accept ip forward-protocol
- udp xdmcp
- \* (Actually the parser didn't accept \*any\* symbolic names in the position
- \* of the UDP port number; only numbers. It now uses the UDP\_PORT macro
- \* instead.
- \*
- \* Revision 2.1 1995/07/01 12:15:42 tli
- \* CSCdi36508: Rationalize parser file placement, part I
- \* Rationalize iprouting
- \*
- \* Revision 2.1 1995/06/07 22:08:34 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_ip\_routing\_routing.h

No license file was found, but licenses were detected in source scan.

/\*-----

\* router\_topology\_registry.c

\*

\* Router topology registry.

\*

\* Sept 2004, Mercia Zheng

\*

\* Copyright (c) 2004-2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/router\_topology\_registry.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* exec\_debug\_routemapapi.h -- Debugging for Route-map API

\*

\* May 2003, Tanya Shastri

\*

\* Copyright (c) 2003-2004, 2007-2008, 2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/exec\_debug\_routemapapi.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: route\_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/route\_map.h,v \$

\*-----

\* policylist.h -- Policy list support data structures

\*

\* April 2000, Rex Fernando

\*  
\* Copyright (c) 2000, 2002-2003, 2005, 2007-2011 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/policylist.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* routemap\_api.h -- Dynamic routemap API definitions.  
\*  
\* May 2003, Tanya Shastri  
\*  
\* Copyright (c) 2003, 2005-2009, 2011, 2013, 2015, 2018-2019 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/routemap\_api.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* router\_af\_parse\_blob.c  
\*  
\* Address family submode command - proxy EOLs  
\*  
\* May 2002, Victor Kamensky  
\*  
\* Copyright (c) 2002-2005, 2007-2009 by cisco Systems, Inc.  
\* All Rights Reserved  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_parse\_blob.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* P A R S E R \_ D E F S \_ R O U T E R . H  
\*  
\* \$Id: parser\_defs\_router.h,v 3.1.40.2 1996/07/30 06:56:06 rchandra Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/parser\_defs\_router.h,v \$  
\*  
\* Copyright (c) 1985-2020 by cisco Systems, Inc.  
\* All rights reserved.

```

*
*-----
* $Log: parser_defs_router.h,v $
* Revision 3.1.40.2 1996/07/30 06:56:06 rchandra
* CSCdi64489: BGP: private-AS number cannot be removed from AS-path
* Branch: California_branch
* - add 'neighbor x.x.x.x remove-private-AS' command.
* - add 'inbound' keyword to 'neighbor x.x.x.x soft-reconfiguration'
*   command (CSCdi64487)
*
* Revision 3.1.40.1 1996/04/16 19:02:10 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*
* Revision 3.1 1996/02/01 04:58:48 hampton
* Migrate files out of the parser directory. [CSCdi47717]
* Step 1: Create
*   copies of the files to be moved in their new location.
*
* Revision 3.2 1995/11/17 18:52:17 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:56:05 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.4 1995/08/28 21:14:47 rchandra
* CSCdi39436: BGP : Allow conditional unsuppression of suppressed routes
* - add 'neighbor x.x.x.x unsuppress-map <map>' command
*
* Revision 2.3 1995/07/06 23:11:21 rchandra
* CSCdi36759: BGP : Add conditional per neighbor default generation
* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
*
* Revision 2.2 1995/06/30 20:24:40 rchandra
* CSCdi36620: BGP requires IBGP neighbors to be fully meshed
*
* Revision 2.1 1995/06/07 22:31:08 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/parser_defs_router.h

```

No license file was found, but licenses were detected in source scan.

```

/* $Id: exec_show_route-map.h,v 3.2.60.1 1996/08/12 16:04:13 widmer Exp $

```

```

* $Source: /release/112/cvs/Xsys/iprouting/exec_show_route-map.h,v $
*-----
* exec_show_route-map.h
*
* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.
* All rights reserved.
*
* Command parsing chain for "show route-map".
*-----
* $Log: exec_show_route-map.h,v $
* Revision 3.2.60.1 1996/08/12 16:04:13 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:33:31 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:29 shaker
* Bump version numbers from 2.x to 3.x.
*
*
* Revision 2.1 1995/07/01 12:16:22 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/exec_show_route-map.h
```

No license file was found, but licenses were detected in source scan.

```

/* $Id: cfg_router_network.h,v 3.2.60.1 1996/08/12 16:03:46 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_network.h,v $
*-----
* C F G _ R O U T E R _ N E T W O R K . H
*
* Copyright (c) 1992-2002, 2004-2009, 2013, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_network.h,v $
* Revision 3.2.60.1 1996/08/12 16:03:46 widmer

```

```

* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:32:18 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:49 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/09/25 08:30:52
tli
* CSCdi40960: ISP jumbo patch 2
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:56 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_network.h
No license file was found, but licenses were detected in source scan.

```

```

/*-----
* routing_context.h - Routing Context library API
*
* March 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routing_context.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: ip_routing.c,v 3.2 1995/11/17 17:34:11 hampton Exp $
* $Source: /swt/cherf.111/ios/sys/iprouting/ip_routing.c,v $
*-----

```



```
* ip_routing.c -- Generic IP routing functions
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995-1998, 2002-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
```

```
*-----
* $Log: ip_routing.c,v $
* Revision 3.2 1995/11/17 17:34:11 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:05 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:03 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_routing.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_router_validate.h
*
* Nob to allow user to decide whether or not system should sanity check
* source IP address of incoming routing updates.
*
* March 1994, Bruce Cole
*
* Copyright (c) 1994-2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_validate.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----  
* routing_context_chain.c  
*  
* Parse chain file for routing context support.  
*  
* March 2009, Derek Yeung  
*  
* Copyright (c) 2009, 2015 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routing_context_chain.c  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* CFG_ROUTER_OUTPUT_DELAY.H  
*  
* router RIP inter-frame gap subcommand  
*  
* Aug 1996, Dawn Li  
*  
* Copyright (c) 1996, 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_output-delay.h  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: exec_show_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:59 enkechen Exp $  
* $Source: /release/111/cvs/Xsys/ip/exec_show_ip_prefixlist.h,v $  
*-----  
* exec_show_ip_prefixlist.h -- Show IP prefix lists  
*  
* July 1997 Enke Chen  
*  
* Copyright (c) 1994-1998, 2000-2001, 2007-2008, 2010 by cisco Systems, Inc.  
* All rights reserved.  
*-----
```

```
* $Log: exec_show_ip_prefixlist.h,v $
* Revision 3.1.2.1 1997/12/17 21:36:59 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:35 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_prefixlist.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* route_map_ionized.c - Route Maps support for IONized processes
*
* July 2001, Siva Yaragalla
*
* Route map subsystem for IOS style processes.
*
* Copyright (c) 2001-2009, 2011, 2016-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_ionized.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* Debugging flag declarations for protocol filter manager - ION
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by cisco Systems, Inc.
* All Rights Reserved
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug_flags_ion.h
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: route_map.h,v 3.3.12.6 1996/05/04 01:22:42 wilber Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.h,v $
*-----
* route_map.h
*
* Route map support data structures.
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: route_map.h,v $
* Revision 3.3.12.6 1996/05/04 01:22:42 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3.12.5 1996/04/16 19:02:23 rchandra
* CSCdi54830: IP features commit
* Branch: California_branch
*
* Revision 3.3.12.4 1996/04/05 03:46:42 rchandra
* CSCdi53755: BGP: flap dampening settings not flexible enough
* Branch: California_branch
* - add route-map support to set flap dampening parameters
*
* Revision 3.3.12.3 1996/04/02 07:29:32 dkatz
* CSCdi52277: Redistribution metric problems with IGRP/EIGRP
* Branch: California_branch
* Always store canonical metrics scaled for IGRP, and make EIGRP do
* its own scaling internally. Get the scaling right in all three
* places.
*
* Revision 3.3.12.2 1996/03/28 23:59:20 rchandra
* CSCdi52098: BGP: exact keyword not accepted by route-map in community
* match
* Branch: California_branch
* - fix my silly bug in handling exact community matching
* - limit the range of valid community to 0xFFFF0000
* - fix a cosmetic bug in show ip community-list
*
* Revision 3.3.12.1 1996/03/28 22:28:27 rchandra
* CSCdi52880: BGP: generate error message for unsupported route-map
```

- \* options
- \* Branch: California\_branch
- \* - generate error message when unsupported route-map option is used
- \* - treat confederation EBGP neighbors similar to internal neighbors in
- \* best path selection
- \* - fix the bug in bgp\_compare\_med, so that
- during MED comparison,
- \* confederation information is skipped properly
- \* - confederation EBGP paths should be inserted into the IP table with
- \* internal distance
- \* - do not consider common-AS neighbors as confederation neighbors
- \* - during 'clear ip bgp dampening' avoid skipping paths
- \* - undo the patch to the radix version walker
- \*
- \* Revision 3.3 1996/02/17 01:23:27 myeung
- \* CSCdi49210: match tag clause does not work with static routes
- \*
- \* Revision 3.2 1995/11/17 17:37:17 hampton
- \* Remove old entries from the RCS header logs.
- \*
- \* Revision 3.1 1995/11/09 12:10:38 shaker
- \* Bump version numbers from 2.x to 3.x.
- \*
- \* Revision 2.4 1995/09/25 08:31:20 tli
- \* CSCdi40960: ISP jumbo patch 2
- \*
- \* Revision 2.3 1995/07/12 07:19:12 tli
- \* CSCdi36426: Policy routing will not disable on an interface
- \* - Policy routed packets were creating fastswitching cache entries.
- \* That's not till \_next\_ release.
- \* - Add counters to record packet and byte count on a per
- route map entry
- \* basis.
- \* - Marketing identified a catastrophic deficiency. Implemented "set ip
- \* tos" and "set ip precedence" to cover this deficiency.
- \*
- \* Revision 2.2 1995/07/06 23:12:41 rchandra
- \* CSCdi36759: BGP : Add conditional per neighbor default generation
- \* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
- \*
- \* Revision 2.1 1995/06/07 21:10:57 hampton
- \* Bump version numbers from 1.x to 2.x.
- \*
- \*-----
- \* \$Endlog\$
- \*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/route\_map.h

No license file was found, but licenses were detected in source scan.

/\*

\* -----

\* Registry for IP route commands in ION

\*

\* September 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001, 2003-2008 by cisco Systems, Inc.

\* All rights reserved.

\* -----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/ion\_iprouting\_cmd\_registry.h

No license file was found, but licenses were detected in source scan.

/\*

\* -----

\* route\_capability.h

\*

\* August 2003, Peter Psenak

\*

\* Copyright (c) 2003-2004, 2007-2009, 2011, 2015 by Cisco Systems, Inc.

\* All rights reserved.

\* -----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/route\_capability.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\* -----

\* iprouting\_init\_blob.c -- Partner file (in blob) for iprouting\_init.c

\*

\* 27-August-2001, Fan Kong

\*

\* Copyright (c) 2001-2011, 2015, 2019 by cisco Systems, Inc.

\* All rights reserved.

\* -----

\* \$Log\$

\* -----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_blob.c

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_set\_policy.h,v 3.3.52.1 1996/05/21 09:53:12 thille Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_set\_policy.h,v \$

\*-----

\* cfg\_routemap\_set\_policy.h -- Policy specific route map clauses

\*

\* Mar 1995 Tony Li

\*

\* Copyright (c) 1995-1996, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_routemap\_set\_policy.h,v \$

\* Revision 3.3.52.1 1996/05/21 09:53:12 thille

\* CSCdi51599: multiple /interface/ literals bloat code.

\* Branch: California\_branch

\* Save another 392 bytes by doing away with duplicate literals.

\*

\* Revision 3.3 1995/11/28 19:50:39 widmer

\* CSCdi44251: Replace Ifelse(csb->in\_help)/Eval with Func

\*

\* Revision 3.2 1995/11/17 17:31:55 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1 1995/11/09 12:05:18 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.3 1995/06/21 18:16:03 widmer

\* CSCdi36227: Fix parse chain alternates

\*

\* Revision 2.2 1995/06/15 15:18:47 widmer

\* CSCdi35889: parser transition structures should be static

\*

\* Revision 2.1 1995/06/07 21:05:42 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-

tar/iprouting\_cmn/include/cfg\_routemap\_set\_policy.h

No license file was found, but licenses were detected in source scan.

```

/* $Id: iprouting_actions.h,v 3.2 1995/11/17 17:34:39 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/iprouting_actions.h,v $
* -----
* IP routing specific parsing functions.
*
* August 1994, Bruce Cole
*
* Copyright (c) 1994, 2004-2008, 2015 by cisco Systems, Inc.
* All rights reserved.
* -----
* $Log: iprouting_actions.h,v $
* Revision 3.2 1995/11/17 17:34:39 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:30 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:35 hampton
* Bump version numbers from 1.x to 2.x.
*
* -----
* $Endlog$
*/

```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/iprouting_actions.h
```

No license file was found, but licenses were detected in source scan.

# All rights reserved.

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/reg/router_topology_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/iprouting_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/reg/route_map_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/makefile
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/reg/lfafr_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/reg/router_af_actions_registry.reg
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/reg/routing_context_registry.reg
*

```

```
/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/.signature/makefile
```

No license file was found, but licenses were detected in source scan.



```
/*-----  
* iprouting_actions_registry.h  
*  
* Router address family actions registry.  
*  
* May 2002, Victor Kamensky  
*  
* Copyright (c) 2002-2003, 2007-2008, 2010 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-  
tar/iprouting_cmn/include/router_af_actions_registry.h  
No license file was found, but licenses were detected in source scan.
```

```
/*-----  
* cfg_router_topology_exit.h - Exit from router topology sub mode.  
*  
* Sept 2004, Mercia Zheng  
*  
* Copyright (c) 2004, 2006-2009 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router_topology_exit.h  
No license file was found, but licenses were detected in source scan.
```

```
#  
#-----  
# iprouting_api.enum - IP Routing public API enum definitions  
#  
# August 2009, Prashant Srinivas  
#  
# Copyright (c) 2009-2010 by cisco Systems, Inc.  
# All rights reserved.  
#-----  
#
```

BEGIN IPROUTING\_API

```
#  
# Enumeration of the possible reasons for disabling routing on an interface  
#
```

```
# Note, string length of the LONG description, should be <= 16 chars,  
#   and contain nothing but alfanumerical characters and _  
#  
ENUM routing_disable_flag_t
```

```
    ITEM ROUTING_DISABLE_FLAG_INT_IF  
    LONG "Internal_IF"  
    END ITEM
```

```
END ENUM
```

```
END
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/enum/iprouting\_api.enum

No license file was found, but licenses were detected in source scan.

```
/*  
*-----  
* protofltr_debug.c - Debug functions for protocol filter manager  
*  
* Mercia Zheng, Jan 2006  
*  
* Copyright (c) 2006-2008 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug.c

No license file was found, but licenses were detected in source scan.

```
/*  
*-----  
* iprouting_init_ionblob.c -- IP Routing Init code for blog in ION only  
*  
* October 2001, Rashmi Shrivastava  
*  
* Copyright (c) 2001-2017 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_ionblob.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_router_redistribute.h,v 3.4.20.3 1996/08/12 16:03:50 widmer Exp $
```

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_redistribute.h,v \$

\*-----

\* CFG\_ROUTER\_REDISTRIBUTE.H

\* Warning:

\* If you modify this file, please also check cfg\_router\_topo\_redistribute.h

\* to see if the changes apply to config-router-topo mode as well.

\*

\* Copyright (c) 1992-2012, 2014-2015, 2018-2021 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_redistribute.h,v \$

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_redistribute.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* policylist\_ionized.c - Routines to handle policy-list commands for

\* IONized processes.

\*

\* November 2003, Siva Yaragalla

\*

\* Copyright (c) 2003-2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/policylist\_ionized.c

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_traffic-share.h,v 3.3.20.1 1996/08/12 16:03:58 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_traffic-share.h,v \$

\*-----

\* cfg\_router\_traffic-share.h - parsing of the traffic-share command

\*

\* Oct 1993 Tony Li

\*

\* Copyright (c) 1993-1999, 2001-2002, 2004-2009, 2015 by cisco Systems, Inc.

\* All rights reserved.

\*-----

```

* $Log: cfg_router_traffic-share.h,v $
* Revision 3.3.20.1 1996/08/12 16:03:58 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3 1996/02/01 23:34:03 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:32:35 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:06:21 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:07 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:13:22 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_traffic-
share.h

```

No license file was found, but licenses were detected in source scan.

```

/*
*-----
* IP routing table flap statistics collection facility.
*
* Nov 1996, Ravi Chandra
*
* Copyright (c) 1995-1998, 2001-2005, 2007-2010 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_stats.c

```

No license file was found, but licenses were detected in source scan.

```

/* $Id$

```

```
* $Source$
*-----
* policylist.c - Routines to handle policy-list commands
*
* Apr. 2000, Rex Fernando
*
* Copyright (c) 2000, 2002-2011, 2016-2017, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/policylist.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: rouource_commande_map.c,v 3.4.10.11 1996/07/09 07:35:58 dawnli Exp $
* $Source: /release/112/cvs/Xsys/iprouting/route_map.c,v $
*-----
* route_map.c -- Route map support routines.
*
* 23-January-1993
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: route_map.c,v $
* Revision 3.4.10.11 1996/07/09 07:35:58 dawnli
* CSCdi57006: route-map in configuration are stored/displayed in reverse
* order
* Branch: California_branch
*
* Revision 3.4.10.10 1996/06/28 23:19:51 hampton
* Remove gratuitous casting. [CSCdi61655]
* Branch: California_branch
*
* Revision 3.4.10.9 1996/06/05 08:27:06 rchandra
* CSCdi59547: Routemap: %SYS-4-REGEXP: NULL string parameter error
* Branch: California_branch
* - do not pass null path to route_map_match_aspath
*
* Revision 3.4.10.8 1996/06/03 23:24:12 ahh
* CSCdi59119: IP: NAT should support named access-lists
* And extended access-lists and non-contiguous address pools.
* Branch: California_branch
*
* Revision 3.4.10.7 1996/05/04 01:22:39 wilber
* Branch: California_branch
*

```

- \* Constrained Multicast Flooding
- \* - Define MOSPF hello option bit.
- \*
- \* Name Access List
- \*
- \* Revision 3.4.10.6 1996/04/16 19:02:21 rchandra
- \* CSCdi54830: IP features commit
- \* Branch: California\_branch
- \*
- \* Revision 3.4.10.5 1996/04/05 03:46:40 rchandra
- \* CSCdi53755: BGP: flap dampening settings not flexible enough
- \* Branch: California\_branch
- \* - add route-map support to set flap dampening parameters
- \*
- \* Revision 3.4.10.4 1996/04/02 07:29:30 dkatz
- \* CSCdi52277: Redistribution metric problems with IGRP/EIGRP
- \* Branch: California\_branch
- \* Always store canonical metrics scaled for IGRP, and make EIGRP do
- \* its own scaling internally. Get the scaling right in all
- three
- places.
- \*
- \* Revision 3.4.10.3 1996/03/28 23:59:18 rchandra
- \* CSCdi52098: BGP: exact keyword not accepted by route-map in community
- match
- \* Branch: California\_branch
- \* - fix my silly bug in handling exact community matching
- \* - limit the range of valid community to 0xFFFF0000
- \* - fix a cosmetic bug in show ip community-list
- \*
- \* Revision 3.4.10.2 1996/03/28 22:28:25 rchandra
- \* CSCdi52880: BGP: generate error message for unsupported route-map
- options
- \* Branch: California\_branch
- \* - generate error message when unsupported route-map option is used
- \* - treat confederation EBGp neighbors similar to internal neighbors in
- best path selection
- \* - fix the bug in bgp\_compare\_med, so that during MED comparison,
- confederation information is skipped properly
- \* - confederation EBGp paths should be inserted into the IP table with
- internal distance
- \* - do not consider common-AS neighbors as confederation neighbors
- \* - during 'clear ip bgp dampening'
- avoid skipping paths
- \* - undo the patch to the radix version walker
- \*
- \* Revision 3.4.10.1 1996/03/18 20:29:32 gstovall
- \* Branch: California\_branch

- \* Elvis has left the building. He headed out to California, and took the
- \* port ready changes with him.
- \*
- \* Revision 3.2.26.3 1996/03/16 06:58:25 gstovall
- \* Branch: DeadKingOnAThrone\_branch
- \* Make the king aware of V111\_1\_3.
- \*
- \* Revision 3.2.26.2 1996/03/07 09:50:41 mdb
- \* Branch: DeadKingOnAThrone\_branch
- \* cisco and ANSI/POSIX libraries.
- \*
- \* Revision 3.2.26.1 1996/02/20 01:04:27 dstine
- \* Branch: DeadKingOnAThrone\_branch
- \*     Sync from DeadKingOnAThrone\_baseline\_960122 to
- \*     DeadKingOnAThrone\_baseline\_960213
- \*
- \* Revision 3.4 1996/02/24 02:01:55 pst
- \* CSCdi49774: modularize regexp's for bgp (part 3)
- \*
- \* Revision 3.3 1996/02/01 06:06:17 hampton
- \* Migrate files out of the parser directory. [CSCdi47717]
- \* Step 2: Change all files which reference the moved parser files to
- \*
- point to their new locations.
- \*
- \* Revision 3.2 1995/11/17 17:37:13 hampton
- \* Remove old entries from the RCS header logs.
- \*
- \* Revision 3.1 1995/11/09 12:10:35 shaker
- \* Bump version numbers from 2.x to 3.x.
- \*
- \* Revision 2.6 1995/09/25 08:31:19 tli
- \* CSCdi40960: ISP jumbo patch 2
- \*
- \* Revision 2.5 1995/07/06 23:12:39 rchandra
- \* CSCdi36759: BGP : Add conditional per neighbor default generation
- \* - add 'neighbor <x.x.x.x> default-originate route-map <tag>' command.
- \*
- \* Revision 2.4 1995/06/23 14:26:05 widmer
- \* CSCdi36318: multiple route-map commands are not accepted
- \* Fix route-map command NV generation
- \*
- \* Revision 2.3 1995/06/15 15:18:52 widmer
- \* CSCdi35889: parser transition structures should be static
- \*
- \* Revision 2.2 1995/06/08 08:59:19 tli
- \* CSCdi35274: route-map test-1 crashes IOS
- \* - If a route map does not set any routing information, it should be

\* equivalent to not having policy routed the packet.  
\* - "match length" clauses  
were having their flag stepped on because the  
\* flag update routine didn't know about the clause.

\*  
\* Revision 2.1 1995/06/07 21:10:53 hampton  
\* Bump version numbers from 1.x to 2.x.

\*  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/route\_map.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_passive-interface.h,v 3.2.60.1 1996/08/12 16:03:49 widmer Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_passive-interface.h,v \$  
\*-----  
\* C F G \_ R O U T E R \_ P A S S I V E \_ I N T . H  
\*  
\* Copyright (c) 1992-1999, 2001-2010, 2018 by cisco Systems, Inc.  
\* All Rights Reserved  
\*-----  
\* \$Log: cfg\_router\_passive-interface.h,v \$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_passive-  
interface.h  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* ip\_prefixlist\_ionized.c - IP Prefix Lists support for ionized processes  
\*  
\* August 2001, Siva Yaragalla  
\*  
\* Copyright (c) 2001-2004, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ionized.c



No license file was found, but licenses were detected in source scan.

```
/* $Id$
 * $Source$
 *-----
 * iprouting_init_ionized.c - ION specific IP Routing Protocol support.
 *
 * September 2001, Chandra Appanna
 *
 * Copyright (c) 2001-2012 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init\_ionized.c

No license file was found, but licenses were detected in source scan.

```
/*-----
 * IP routemap test commands
 *
 * May 2003, Tanya Shastri
 *
 * Copyright (c) 2003, 2005-2008, 2011-2013, 2015, 2018-2019 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/exec\_test\_ip\_routemap.h

No license file was found, but licenses were detected in source scan.

```
/*
 *-----
 * cfg_router_topology.h - router topology configuration mode command
 *
 * Sept 2004, Mercia Zheng
 *
 * Copyright (c) 2004-2005, 2007-2009, 2013 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topology.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* ion\_iprouting\_cmd\_registry.c

\*

\* September 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001, 2003, 2005-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ion\_iprouting\_cmd\_registry.c

No license file was found, but licenses were detected in source scan.

/\*-----

\* exec\_routing\_context.h

\*

\* This file defines the routing-context command syntax.

\*

\* March 2009, Derek Yeung

\*

\* Copyright (c) 2009-2010, 2015, 2020 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/exec\_routing\_context.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_exit.h,v 3.2.60.1 1996/08/12 16:03:34 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_exit.h,v \$

\*-----

\* cfg\_routemap\_exit.h

\*

\* exit - exit from route-map configuration mode

\*

\* Copyright (c) 1992-1996, 2007-2009 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_routemap\_exit.h,v \$

\* Revision 3.2.60.1 1996/08/12 16:03:34 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

```

* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:31:42 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:03 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01
12:15:44 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:09 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_exit.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* iprouting_init_ios.c -- IP Routing Init code for Native IOS only
*
* October 2001, Rashmi Shrivastava
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_init_ios.c
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* cfg_router_summary_addr.h

```

```
*
* Supports the router subcommand "summary-address". Provides IP aggregation
* configuration.
*
* Copyright (c) 1992-2004, 2007-2010, 2015, 2018 by cisco Systems, Inc.
* All rights reserved.
*
* Longer description here.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_summary_addr.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*
*-----
* Generic route tag list support.
*
* June 2011, Karthik Subramaniam
*
* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routetag_list.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_router_input-queue.h
*
* September 1997, Dawn Li
*
* Copyright (c) 1997-2002, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
```

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_input-queue.h

No license file was found, but licenses were detected in source scan.

/\*-----

\* route\_map\_def.h - Route Map Tyep Definition

\*

\* Feb, 2006 Allen Hu

\*

\* Copyright (c) 2006-2008, 2017 by cisco Systems, Inc.

\* All rights reserved.

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/route\_map\_def.h

No license file was found, but licenses were detected in source scan.

/\*

/\*-----

\* protofltr\_debug.h -- Routing protocol filter manager debug flag

\*

\* Jan 2006, Mercia Zheng

\*

\* Copyright (c) 2005-2008 by Cisco Systems, Inc.

\* All rights reserved.

/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/protofltr\_debug.h

No license file was found, but licenses were detected in source scan.

/\*

/\*-----

\* CFG\_ROUTER\_TOPO\_REDISTRIBUTE.H

\*

\* October 2004, Lisa Z Xu

\*

\* Copied from and modified based on cfg\_router\_redistribute.h.

\* Warning:

\* If you modify this file, please also check cfg\_router\_redistribute.h

\* to see if the changes apply to config-router mode as well.

\*

\* Copyright (c) 2004-2011, 2018-2021 by Cisco Systems, Inc.

\* All Rights Reserved

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topo\_redistribute.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* iprouting\_parser\_linkpoints.c - iprouting parser linkpoint defs.

\*

\* April, 2005

\*

\* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_parser\_linkpoints.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* msg\_routemap.c -- Message system definitions for Route-map

\*

\* Copyright (c) 2003, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/msg\_routemap.c

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* C F G \_ R O U T E R \_ D E F A U L T S . H

\*

\* Copyright (c) 1992-2011, 2013, 2015-2016, 2019 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\*/opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_router\_default.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_offset.h,v 3.3.20.4 1996/09/04 23:46:26 mikel Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_offset.h,v \$

\*-----

\* C F G \_ R O U T E R \_ O F F S E T . H

\*

\* Copyright (c) 1992-1998, 2002, 2004-2008 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_offset.h,v \$

\* Revision 3.3.20.4 1996/09/04 23:46:26 mikel

\* CSCdi65889: offset-list doesnt work for EIGRP

\* Branch: California\_branch

\* Re-enable offset-list command as well as adding offset-list out support,

\* and fix offset-list to work with access-lists

\*

\* Revision 3.3.20.3 1996/08/12 16:03:48 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword

help strings

\*

\* Revision 3.3.20.2 1996/05/04 01:21:23 wilber

\* Branch: California\_branch

\*

\* Constrained Multicast Flooding

\* - Define MOSPF hello option bit.

\*

\* Name Access List

\*

\* Revision 3.3.20.1 1996/04/09 05:54:35 mikel

\* CSCdi49628: EIGRP ignores outgoing offset-list

\* Branch: California\_branch

\* disable offset-list command from eigrp router config

\*

\* Revision 3.3 1996/02/01 23:33:59 widmer

\* CSCdi45325: Change Keyword/Set to use Keyword\_Id macro

\*

\* Revision 3.2 1995/11/17 17:32:19 hampton

\* Remove old entries from the RCS header logs.

```

*
* Revision 3.1 1995/11/09 12:05:53 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:58 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

*
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_offset.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* routing_context_registry.c
*
* September 2009, Derek Yeung
*
* Copyright (c) 2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routing_context_registry.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* iprouting_parser_macros.h - Routing macros moved out of
*   sys/parser/macros.h
*
* November, 2004
*
* Copyright (c) 2004-2011, 2013, 2015, 2018 by cisco Systems, Inc.
* All rights reserved.

```





```
* Revision 3.1 1995/11/09 12:07:27 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:16:21 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:25:21 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_show_protocols.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* routemap_ios.c -- Route map support routines that can be shared
* by RP and VIP/LC
*
* July 1998 Wilber Su
*
* Copyright (c) 1998-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_ios.c
No license file was found, but licenses were detected in source scan.
```

```
##
## content.lst file for iprouting_cmn
## See EDCS-905060 for more details.
##
## Oct 2010, Manu Pathak
##
## Copyright (c) 2010-2011, 2016 by cisco Systems, Inc.
## All rights reserved.
##
```

syntax: 1.0.0

```
# iprouting_cmn meta-source files
group: iprouting_cmn-generic
```

```

{
enum:
    iprouting_cmn/include/enum/iprouting_api.enum

reg:
    iprouting_cmn/include/reg/ion_iprouting_cmd_registry.reg
    iprouting_cmn/include/reg/iprouting_registry.reg
    iprouting_cmn/include/reg/lfafr_registry.reg
    iprouting_cmn/include/reg/route_map_registry.reg
    iprouting_cmn/include/reg/router_af_actions_registry.reg
    iprouting_cmn/include/reg/router_topology_registry.reg
    iprouting_cmn/include/reg/routing_context_registry.reg
}
# end of group: iprouting_cmn-generic

# iprouting_cmn source files
group: iprouting_cmn
{
includes:
    ../generic/routing/iprouting_cmn/include
    $(COMPONENT_ROOT)/routing/iprouting_cmn/include
    $(COMPONENT_ROOT)/routing/iprouting_cmn/internal_inc
    $(COMPONENT_ROOT)/routing/iprouting_cmn/src
    $(COMPONENT_ROOT)/routing
    $(COMPONENT_ROOT)/posix/include
    $(IOS_SYSROOT)/ion/include
    $(IOS_SYSROOT)/crypto/ca
    $(IOS_SYSROOT)/crypto/ca/certcinc
    $(IOS_SYSROOT)/crypto/ca/bsafeinc
    $(IOS_SYSROOT)/crypto/ca/provider/include
defines: CRYPTOCv5 CERTCv5
cflags: -Wno-parentheses -Wno-uninitialized
sub: ion_iprouting_cmd_registry
{
    context: os==ion
    contains:
        iprouting_cmn/src/ion_iprouting_cmd_registry.c
}
sub: iprouting_blob
{
    contains:
        iprouting_cmn/src/ip_routing.c
        iprouting_cmn/src/ip_stats.c
        iprouting_cmn/src/iprouting_actions.c
        iprouting_cmn/src/iprouting_chain.c
        iprouting_cmn/src/iprouting_debug.c
        iprouting_cmn/src/iprouting_init_blob.c
        iprouting_cmn/src/iprouting_setup.c
}

```

```

    iprouting_cmn/src/protofltr_debug.c
    iprouting_cmn/src/route3_blob.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/router_af_chain.c
    iprouting_cmn/src/router_topology_chain.c
    iprouting_cmn/src/routing_context_chain.c
}
sub: iprouting_cmn
{
    contains:
        iprouting_cmn/include/msg_iproute.rc
        iprouting_cmn/src/iprouting_cmn.c
}
sub: iprouting_common_blob
{
    contains:
        iprouting_cmn/src/ip_prefixlist_chain.c
        iprouting_cmn/src/policylist_blob.c
        iprouting_cmn/src/route_map_blob.c
        iprouting_cmn/src/routemap_track.c
}
sub: iprouting_common_ionblob
{
    context: os==ion
    contains:
        iprouting_cmn/src/ip_prefixlist_ionblob.c
        iprouting_cmn/src/route_map_ionblob.c
}
sub: iprouting_common_ionized
{
    context: os==ion
    contains:
        iprouting_cmn/src/ip_prefixlist_ionized.c
        iprouting_cmn/src/policylist_ionized.c
        iprouting_cmn/src/route_map_ionized.c
}
sub: iprouting_common_misc
{
    contains:
        iprouting_cmn/src/ip_prefixlist.c
        iprouting_cmn/src/msg_routemap.c
        iprouting_cmn/src/policylist.c
        iprouting_cmn/src/route_map.c
        iprouting_cmn/src/routetag_list.c
}
sub: iprouting_common_nbcmn
{
    contains:

```

```

    iprouting_cmn/src/route_map_nbcmn.c
}
sub: iprouting_common_nonblob
{
    contains:
        iprouting_cmn/src/ip_prefixlist_ios.c
        iprouting_cmn/src/policylist_ios.c
}
sub: iprouting_init_ios
{
    contains:
        iprouting_cmn/src/iprouting_init_ios.c
}
sub: iprouting_ionblob
{
    context: os==ion
    contains:
        iprouting_cmn/src/iprouting_init_ionblob.c
        iprouting_cmn/src/iprouting_parse_blob.c
        iprouting_cmn/src/router_af_parse_blob.c
}
sub: iprouting_ionized
{
    context: os==ion
    contains:
        iprouting_cmn/src/iprouting_init_ionized.c
        iprouting_cmn/src/route3_ionized.c
}
sub: iprouting_misc
{
    contains:
        iprouting_cmn/src/routemap_api.c
        iprouting_cmn/src/routemap_api_util.c
        iprouting_cmn/src/routemap_internal.c
}
sub: iprouting_nonblob
{
    contains:
        iprouting_cmn/src/iprib_api_svr.c
        iprouting_cmn/src/iprouting_init.c
        iprouting_cmn/src/iprouting_stats.c
        iprouting_cmn/src/protofltr.c
        iprouting_cmn/src/route1.c
        iprouting_cmn/src/route2.c
        iprouting_cmn/src/route3.c
        iprouting_cmn/src/router_af_parse.c
        iprouting_cmn/src/router_topology_parse.c
}

```

```

sub: iprouting_parser
{
  contains:
    iprouting_cmn/src/iprouting_parser_linkpoints.c
}
sub: iprouting_registry
{
  contains:
    iprouting_cmn/src/iprouting_registry.c
}
sub: ipv4_subsys
{
  contains:
    iprouting_cmn/src/ipv4_subsys.c
}
sub: lfafrr_registry
{
  contains:
    iprouting_cmn/src/lfafrr_registry.c
}
sub: route_map_globs
{
  contains:
    iprouting_cmn/src/route_map_globs.c
}
sub: route_map_registry
{
  contains:
    iprouting_cmn/src/route_map_registry.c
}
sub: routemap_common_blob
{
  contains:
    iprouting_cmn/src/routemap_ios_blob.c
}
sub: routemap_common_ionized
{
  context: os==ion
  contains:
    iprouting_cmn/src/route_map_http_ion.c
}
sub: routemap_common_nonblob
{
  contains:
    iprouting_cmn/src/routemap_ios.c
    iprouting_cmn/src/routemap_track_ios.c
}
sub: routemap_ios_chain

```

```

{
  contains:
    iprouting_cmn/src/routemap_ios_chain.c
}
sub: routemap_lc_ipc
{
  context: os==ios
  contains:
    iprouting_cmn/src/route_map_globs.c
    iprouting_cmn/src/routemap_api.c
    iprouting_cmn/src/routemap_api_util.c
    iprouting_cmn/src/routemap_debug.c
    iprouting_cmn/src/routemap_internal.c
    iprouting_cmn/src/routemap_ios_chain.c
    iprouting_cmn/src/routetag_list.c
}
sub: router_af_actions_registry
{
  contains:
    iprouting_cmn/src/router_af_actions_registry.c
}
sub: router_topology_registry
{
  contains:
    iprouting_cmn/src/router_topology_registry.c
}
sub: routing_context
{
  contains:
    iprouting_cmn/src/routing_context.c
}
sub: routing_context_registry
{
  contains:
    iprouting_cmn/src/routing_context_registry.c
}
}
# end of group: iprouting_cmn

```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/content.lst

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_debug\_flags.h -- Routemap debugging support

\*

\* July 1998, Wilber Su

```
*
* Copyright (c) 1998, 2004, 2007-2008, 2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routemap_debug_flags.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* cfg_router_auto_summary.h
*
* October 1993
*
* Copyright (c) 1993-1996, 1999-2009 by cisco Systems, Inc.
* All rights reserved.
*
* Supports the router subcommand "auto-summary". Configures auto aggregation
* of routing information to the network number level.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_auto_summary.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routemap_internal.c -- Internal funtions of routemap code.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2009, 2011-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_internal.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id: exec_clear_ip_prefixlist.h,v 3.1.2.1 1997/12/17 21:36:58 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/exec_clear_ip_prefixlist.h,v $
*-----
* exec_clear_ip_prefixlist.h
*
```



```

* July 1997, Enke Chen
*
* Copyright (c) 1995-1998, 2000-2001, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: exec_clear_ip_prefixlist.h,v $
* Revision 3.1.2.1 1997/12/17 21:36:58 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:34 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_clear_ip_prefixlist.h
```

No license file was found, but licenses were detected in source scan.

```

/* $Id: ip_routing.h,v 3.2 1995/11/17 17:34:12 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/ip_routing.h,v $
*-----
* ip_routing.h -- Generic IP routing declarations
*
* Mar 1995 Tony Li
*
* Copyright (c) 1995, 1998, 2004, 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_routing.h,v $
* Revision 3.2 1995/11/17 17:34:12 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:08:06 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/06/07 21:07:05 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/ip_routing.h
```

No license file was found, but licenses were detected in source scan.

```
/* $Id$
 * $Source$
 *-----
 * cfg_routemap_set.h
 *
 * Process route-map set subcommands.
 *
 * Copyright (c) 1992-1998, 2001-2003, 2007-2019 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_set.h

No license file was found, but licenses were detected in source scan.

```
/*
 *-----
 * iprouting_parser_linkpoints.h - iprouting parser linkpoint decls.
 *
 * April, 2005
 *
 * Copyright (c) 2005, 2007-2008, 2015 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_parser\_linkpoints.h

No license file was found, but licenses were detected in source scan.

```
/*
 *-----
 * policylist_ios.c - IOS stubs for notification routines
 *           in policylist code
 *
 * Jun 2005, Tony P. Ambalathingal
 *
 * Copyright (c) 2003, 2005, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-----
```

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/policylist\_ios.c  
No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* IOS prefix list support.

\*

\* March 2005, Sarath Chandran

\*

\* Copyright (c) 2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_ios.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* iprouting\_blob\_undef.c -- undefined symbols from blob when  
\* routing subsystems are pulled out

\*

\* October, 2002 Phil Winterfield

\*

\* Copyright (c) 2001-2005, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_blob\_undef.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* iprouting\_registry.c

\*

\* September 2001, Fan Kong

```
*
* Copyright (c) 2001, 2003, 2005, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_registry.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* ip_stats.h - IP for topology aware stats
*
* Feburary 2006, Jonsky Hsu
*
* Copyright (c) 2006-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/ip_stats.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* protofltr_debug_flags.h -- Protofltr manager debug flags declarations
*
* Jan 2006, Mercia Zheng
*
* Copyright (c) 2005-2008 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/protofltr_debug_flags.h
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* $Id$
* $Source$
*-----
* route3.c -- Routing Support: Router command and related routines
```

```

*
* 15-June-1987, Kirk Lougheed
*
* Copyright (c) 1987-2021 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
/*
* If its not a per-user distribute-list, we have to configure the
* route-map for pflist_def too - its used to restore default when
* a per-user distribute-list is un-configured as well as for
* nvgen purposes. All this mess, only for the interface specific
* version.
*/
/*
* This command is only valid for ipv4 and nsap AFs in BGP.
* However it is accepted for other BGP AFs
* for backwards compatibility. However, no action
* is taken for these
AFs and it is not nvgen'ed
* either. Check out cfg_router_default.h for
* more details.
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route3.c
No license file was found, but licenses were detected in source scan.

```

```

/*
*-----
* iprouting_DEBUG_FLAG_BB.h -- Debugging flag declarations for IP routing
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2011, 2013, 2015, 2018-2020 by Cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/iprouting_debug_flags.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$

```

```

*-----
* route.h -- IP routing definitions
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

`/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/route.h`

No license file was found, but licenses were detected in source scan.

```

/* $Id: cfg_router_metric.h,v 3.2 1995/11/17 17:32:13 hampton Exp $
* $Source: /swtal/cherf.111/ios/sys/iprouting/cfg_router_metric.h,v $
*-----
* C F G _ R O U T E R _ M E T R I C . H
*
* Copyright (c) 1992-2002, 2004, 2006-2009 by cisco Systems, Inc.
* All Rights Reserved
*-----
* $Log: cfg_router_metric.h,v $
* Revision 3.2 1995/11/17 17:32:13 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:41 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:54 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:46 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

`/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_metric.h`

No license file was found, but licenses were detected in source scan.

```

/* $Id$

```

```
* $Source$
*-----
* route2.c -- Routing Support: User Interface Routines
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route2.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* routemap_api.c -- Dynamic routemap APIs.
*
* May 2003, Tanya Shastri
*
* Copyright (c) 2003, 2005-2015, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/routemap_api.c
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* Ifafrr_registry.c
*
* July 2010, Ahmed Bashandy
*
* Copyright (c) 2001, 2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/lfafrr\_registry.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_debug.h -- Routemap debugging support

\*

\* July 1998, Wilber Su

\*

\* Copyright (c) 1998, 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/routemap\_debug.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_route\_map.h

\*

\* Enter route-map subcommand mode

\*

\* Copyright (c) 1992-1996, 2001-2002, 2007-2010, 2017 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_route\_map.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* iprouting\_commands.h -- Support for extern command function declaration

\*

\* September 2001, Rashmi Shrivastava

\*

\* Copyright (c) 2001-2010, 2013, 2016 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$



\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/iprouting\_commands.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* exec\_show\_routetag\_list.h

\*

\* Copyright (c) 1993-1996, 1998, 2003-2008, 2011 by cisco Systems, Inc.

\* All rights reserved.

\*

\* Command parsing chain for "show route-tag".

\*-----

\*

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/exec\_show\_routetag\_list.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_track\_ios.c -- Route map support for tracking

\*                   Functions shared by rp & vip.

\*

\* March 2003 Shyan Wignarajah

\*

\* Copyright (c) 2003-2010, 2013-2014, 2016 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/routemap\_track\_ios.c

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* Registry for IP FRR infrastructure

\*

\* July 6, 2010 Ahmed Bashandy

\*

\* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/lfafrr\_registry.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* Generic prefix list support - prefix lists private header file

\*

\* March 2002, Siva Yaragalla

\*

\* Copyright (c) 2002, 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_private.h

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_routemap\_set\_ip\_policy.h,v 3.3.52.1 1996/06/18 19:06:39 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_routemap\_set\_ip\_policy.h,v \$

\*-----

\* cfg\_routemap\_set\_ip\_policy.h -- IP policy specific route map clauses

\*

\* Mar 1995 Tony Li

\*

\* Copyright (c) 1995-1998, 2000, 2002, 2004, 2007-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log: cfg\_routemap\_set\_ip\_policy.h,v \$

\* Revision 3.3.52.1 1996/06/18 19:06:39 widmer

\* CSCdi59706: parser lets you set tos/precedence bits forever (input

\* loop)

\* Branch: California\_branch

\*

\* Revision 3.3 1995/11/28 19:50:38 widmer

\* CSCdi44251: Replace Ifelse(csb->in\_help)/Eval with Func

\*

\* Revision 3.2 1995/11/17 17:31:53 hampton

\* Remove old entries from the RCS header logs.

```

*
* Revision 3.1 1995/11/09
12:05:16 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.5 1995/08/16 01:01:15 tli
* CSCdi38512: Policy: TOS and precedence long help says match instead of
* set
*
* Revision 2.4 1995/07/12 07:19:09 tli
* CSCdi36426: Policy routing will not disable on an interface
* - Policy routed packets were creating fastswitching cache entries.
* That's not till _next_ release.
* - Add counters to record packet and byte count on a per route map entry
* basis.
* - Marketing identified a catastrophic deficiency. Implemented "set ip
* tos" and "set ip precedence" to cover this deficiency.
*
* Revision 2.3 1995/06/21 18:16:02 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:47 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:39 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
*
$Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_set_ip_policy.h

```

No license file was found, but licenses were detected in source scan.

```

/* $Id: cfg_router_distribute.h,v 3.3.50.2.6.1 1996/09/12 19:08:19 perry1 Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router_distribute.h,v $
*-----

```

```

* C F G _ R O U T E R _ D I S T R I B U T E . H
*

```

```

* Copyright (c) 1992-2001, 2003-2012, 2015-2016, 2018 by cisco Systems, Inc.
* All Rights Reserved
*-----

```

```

* $Log: cfg_router_distribute.h,v $
* Revision 3.3.50.2.6.1 1996/09/12 19:08:19 perry1
* Branch: Att-branch

```

```

* Allow virtual-access interface for distribute-list
*
* Revision 3.3.50.2 1996/08/12 16:03:44 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.3.50.1 1996/05/04 01:21:18 wilber
* Branch: California_branch
*
* Constrained Multicast Flooding
* - Define MOSPF hello option bit.
*
* Name Access List
*
* Revision 3.3 1995/12/04 06:47:13 tli
* CSCdi43559: IP: distribute-list 101 out should work
*
* Revision 3.2 1995/11/17 17:32:10 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:34 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:52 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:36 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distribute.h

```

No license file was found, but licenses were detected in source scan.

```

/*-----
* router_topology_registry.h
*
* Router topology registry.
*
* Sept 2004, Mercia Zheng
*

```

\* Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/router\_topology\_registry.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* exec\_debug\_protofltr.h

\*

\* Jan 2006, Mercia Zheng

\*

\* Copyright (c) 2005-2009 by cisco Systems, Inc.

\*

\* All Rights Reserved

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/exec\_debug\_protofltr.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* protofltr\_public.h

\*

\* Routing protocol filter manager Public API definitions

\*

\* Dec 2008, Mercia Zheng

\*

\* Copyright (c) 2008-2009 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/protofltr\_public.h

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_routemap\_set\_ip.h -- IP specific route-map clauses

\*

```
* Mar 1995 Tony Li
*
* Copyright (c) 1995-1998, 2000-2004, 2006-2013, 2016, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_routemap_set_ip.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* router_topology_parse.h
*
* Router topology parser functions declarations.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/router_topology_parse.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* Registry for IP routing infrastructure in ION
*
* September 2001, Fan Kong
*
* Copyright (c) 2001-2003, 2005, 2007-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/iprouting_registry.h
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* ip_prefixlist_ion.h - IP Prefix Lists support for ION
*
* June 2002, Siva Yaragalla
*
* Copyright (c) 2002, 2005, 2007-2017 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/ip\_prefixlist\_ion.h

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* Parse chains for router Address Family mode
*
* June 2002, Donnie Savage
*
* Copyright (c) 1998-2011, 2013-2014, 2016, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_chain.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_int_ip2_routing.h,v 3.2.60.1 1996/08/12 16:03:24 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_int_ip2_routing.h,v $
*-----
* cfg_int_ip2_routing.h
*
* May 1994, Derek Yeung
*
* Copyright (c) 1993-1996, 1998-1999, 2007-2009 by cisco Systems, Inc.
* All rights reserved.
*
* IP routing interface commands that must be after the encapsulation command
* in NV order.
```

```

*-----
* $Log: cfg_int_ip2_routing.h,v $
* Revision 3.2.60.1 1996/08/12 16:03:24 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2 1995/11/17 17:31:23 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09
12:04:31 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/08/04 03:07:45 dstine
* CSCdi37681: Need event logging for EIGRP
*
* Revision 2.1 1995/07/01 12:15:32 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:05:27 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_int_ip2_routing.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: iprouting_init.c,v 1.1 2003/06/13 18:30:09 dsavage Exp dsavage $
* $Source: /view/dsavage-CSCdy77097-rip-V123/vob/ios.sys2/sys/iprouting/iprouting_init.c,v $
*-----
* iprouting_init.c -- initialize IP Routing Protocol support.
*
* 20-August-1985, Kirk Lougheed
*
* Copyright (c) 1985-2012, 2016, 2018-2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: iprouting_init.c,v $
* Revision 1.1 2003/06/13 18:30:09 dsavage
* Initial revision
*
*-----

```



\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_init.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_track.c -- Route map support for tracking

\*           Functions which run on RP (not VIP).

\*

\* March 2003 Shyan Wignarajah

\*

\* Copyright (c) 2003-2008, 2013-2014 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/routemap\_track.c

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

\* cfg\_route\_default.h

\*

\* September 2016, Yingzhen Qu

\*

\* Copyright (c) 2016 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\* \$Log\$

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_route\_default.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_ios\_blob.c -- Route map support routines that can be shared

\* by RP and VIP/LC

\*

\* October 14, 2001 Siva Yaragalla

\*  
\* Copyright (c) 2001-2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/routemap\_ios\_blob.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$  
\*-----  
\* cfg\_routemap\_match.h  
\*  
\* Process route-map match subcommands.  
\*  
\* Copyright (c) 1992-1999, 2002-2005, 2007-2012, 2018 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log\$  
\*-----  
\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_routemap\_match.h  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* protofltr.h  
\*  
\* Routing protocol filter manager Public API definitions  
\*  
\* Jan 2006, Mercia Zheng  
\*  
\* Copyright (c) 2005-2011, 2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/protofltr.h  
No license file was found, but licenses were detected in source scan.

/\* \$Id\$  
\* \$Source\$

```
*-----
*
* parser_defs_route_map.h
*
* Constant definition for route-map command and associated subcommands.
*
* Copyright (c) 1985-1996, 1999, 2001, 2004-2005, 2007-2008, 2011, 2014-2015 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/parser\_defs\_route\_map.h  
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* Address Family configuration mode commands.
*
* April 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/internal\_inc/cfg\_af\_mode.h  
No license file was found, but licenses were detected in source scan.

```
/*-----
* router_topology_parse.c - Router topology command definitions.
*
* Sept 2004, Mercia Zheng
*
* Copyright (c) 2004-2010, 2019-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/router\_topology\_parse.c

No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_neighbor.h,v 3.3.20.1 1996/08/12 16:03:45 widmer Exp \$

\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_neighbor.h,v \$

\*-----

\* C F G \_ R O U T E R \_ N E I G H B O R . H

\*

\* Copyright (c) 1992-2002, 2004-2010, 2012, 2018 by cisco Systems, Inc.

\* All Rights Reserved

\*-----

\* \$Log: cfg\_router\_neighbor.h,v \$

\* Revision 3.3.20.1 1996/08/12 16:03:45 widmer

\* CSCdi65725: Create Eolns macro that defaults csb->which to 0

\* Branch: California\_branch

\* Add Eolns and Nvgenns macro that default csb->which to 0

\* Remove hidden keyword help strings

\*

\* Revision 3.3 1996/02/01 23:33:57 widmer

\* CSCdi45325: Change Keyword/Set to use Keyword\_Id macro

\*

\* Revision 3.2 1995/11/17 17:32:14 hampton

\* Remove old entries from the RCS header logs.

\*

\* Revision 3.1

1995/11/09 12:05:42 shaker

\* Bump version numbers from 2.x to 3.x.

\*

\* Revision 2.1 1995/07/01 12:15:55 tli

\* CSCdi36508: Rationalize parser file placement, part I

\* Rationalize iprouting

\*

\* Revision 2.1 1995/06/07 22:12:48 hampton

\* Bump version numbers from 1.x to 2.x.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-

tar/iprouting\_cmn/internal\_inc/cfg\_router\_neighbor.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* route\_map\_nbcmn.c -- Route map support non-Blob common routines

\*

\* October 2001, Siva Yaragalla  
\*  
\* Copyright (c) 2001-2013, 2018, 2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_nbcmn.c  
No license file was found, but licenses were detected in source scan.

/\*  
\*  
\*-----  
\* Generic tag list support.  
\*  
\* June 2011, Karthik Subramaniam  
\*  
\* Copyright (c) 1997-2008, 2010-2012 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/routetag\_list.c  
No license file was found, but licenses were detected in source scan.

/\* \$Id: cfg\_router\_distance.h,v 3.2.60.1 1996/05/04 01:21:16 wilber Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/cfg\_router\_distance.h,v \$  
\*-----  
\* C F G \_ R O U T E R \_ D I S T A N C E . H  
\*  
\* The bgp version must come before the weight version so that both NVGEN  
\* and normal processing happen correctly.  
\*  
\* Copyright (c) 1992-1999, 2001-2010, 2015-2016, 2019-2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\* \$Log: cfg\_router\_distance.h,v \$  
\* Revision 3.2.60.1 1996/05/04 01:21:16 wilber  
\* Branch: California\_branch  
\*  
\* Constrained Multicast Flooding  
\* - Define MOSPF hello option bit.  
\*  
\* Name Access List  
\*  
\* Revision 3.2 1995/11/17 17:32:05 hampton

```
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:29 shaker
* Bump version
  numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:50 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:30 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/internal_inc/cfg_router_distance.h
```

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Source$
*-----
* Address-family command; enters Address Family mode.
*
* Sept 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2001-2010, 2012, 2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router_af.h
```

No license file was found, but licenses were detected in source scan.

```
/*
*-----
* iprouting_debug.h -- Debugging declarations for IP routing
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2010 by Cisco Systems, Inc.
```

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_debug.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* ip\_prefixlist\_chain.c - Parse chains for IP Prefix Lists

\*

\* August 2001, Siva Yaragalla

\*

\* Copyright (c) 2001-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/ip\_prefixlist\_chain.c

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* exec\_clear\_routemap.h -- clear route-map counters

\*

\* Copyright (c) 1986-2008 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/exec\_clear\_routemap.h

No license file was found, but licenses were detected in source scan.

!-----

! iproutingcmn\_router\_cmd.sesut - IPv4 Routing Common Router

!     Commands Unit Test Routines

!

! December 2007, Chi Iong Ansjory

!

! Copyright (c) 2007 by cisco Systems, Inc.

! All rights reserved.

!-----

! Sample unit test description file.

! This file is used for generation of unit test module by SESUT.

! See [http://www.win-ses.cisco.com/unittest/sesut\\_ios.html](http://www.win-ses.cisco.com/unittest/sesut_ios.html) for

! information about SESUT.  
!  
! Include a description of your test here.  
!  
! This is made up of many sections. Each section header starts with % in  
! first column. It is followed by the section identifier.  
! Lines that have '!' in the first column are considered comments.  
! Blank lines are ignored.  
!  
! You can report success/failure of your test by calling the following  
! functions.  
! Call sesut\_<file prefix>\_testpass to indicate  
! test success.  
! void sesut\_<file prefix>\_testpass(void);  
! Call sesut\_<file prefix>\_testfail to indicate test failure.  
! void sesut\_<file prefix>\_testfail(const char \*fmt, ... );  
! The length of the formatted string should be less than or equal  
! to 255. Else it will be truncated.  
! Prototypes for these functions are included in the header file that  
! is generated by SESUT.

% Cflow

! Enter the files/subsystems in the unit under test.  
! These files will be instrumented for Cflow and MIF(if MIF is  
! available in your view). GDB flag -g is used during compilation.  
! cflow\_list=\$(sub\_mif) xyz.o \$(my\_subsys) abc.o  
! This list is ignored if ses\_iouut is used. ses\_iouut instruments all files  
! in UUT(defined by -old and -new options).

% MIF

! Enter MIF configuration  
! If MIF configuration is not specified and cflow\_list is specified  
! then a default MIF configuration is used.

!./os/free.c  
!./os/buffers.c  
!./os/chunk.c  
!-----  
!malloc  
!malloc\_aligned  
!malloc\_fast  
!malloc\_pcimem  
!malloc\_named  
!chunk\_malloc  
!getbuffer  
!pool\_getbuffer

%



## API

```
! Include DTD configuration.
! Not all features of DTD are available with SESUT yet.
! List headers/text that contain prototypes for the functions to be tested
! for robustness followed by a line consisting of '-'s followed by
! the list of functions to be tested for robustness.
! It is assumed that a .h file that includes all the text listed above
! the line consisting of '-'s is self-compiling in the same context as
! the one used to compile the .sesut file and has the definitions of
! all the objects whose pointers are referenced.
!master.h
!../testtools/testtools.h
!../testtools/testtools_private.h
!<stdio.h>
!void mynewapi(int,int);
!-----
!mif_enable
!mif_disable
!mif_clear
!mif_lock
!mynewapi

% env
! Use this section to list object modules that are not
! part of the standard build but are used by the tests defined in this
! file. The text following "link:" is inserted
! into the final link step.
!link: xyz.o abc.o
!
! Use this section to add any special 'CFLAGS' needed to compile sesut
! generated test file
!cflags: -I../http/http_core/include
!cflags: -I../http/http_core/server
!cflags: -I../ios_http_core/config -I../http/http_core/lib
!cflags: -DEW_CONFIG_OPTION_CLIENT_CACHE
!
! You can specify functions to be executed before and after the test.
! pretest is executed before executing the unit test and the posttest is
! executed after executing the unit test. These are executed once regardless
! of the repeat count. The prototypes of these functions are expected to be:
! void <pretest>(void);
! void <posttest>(void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!pretest:config_my_feature
!posttest:validate_results
! If want want your pretest/posttest functions to receive same
! parameters as the test then specify the functions as:
```

```

!pretest_withparams:config_my_feature
!posttest_withparams:validate_results
!
The prototypes for these functions would be:
! void <pretest_withparams>(<types of parameters>)
! void <posttest_withparams>(<types of parameters>)
! Parameters are specified using "parameter:" keyword in % model" section.
! If both {pre|post}test and {pre|post}test_withparams are specified:
!   pretest is executed before pretest_withparams.
!   posttest is executed after posttest_withparams.

! You can specify a initializer/finalizer function to be executed
! at the time of test initialization/removal.
! Initializer is executed once during the lifetime of the current instance of
! the test. If the test is part of the image then the initializer is executed
! during subsystem initialization. If the test is a DLST(dynamically loaded)
! then the initializer is executed just after the dynamic load.
! The finalizer is executed when the test is removed (happens when the test is
! being replaced).
! Note that the subsystems in
the DLST are not initialized. You must list the
! subsystem init functions in the initializer function. Subsystem header is
! ignored for DLST's. You will not see the subsystems for DLST's listed in
! "show subsys" output.
! Use initializer to perform tasks like registry addition, memory allocation etc.
! Similarly use the finalizer to free these resources. This is an important
! consideration. Treat them like constructor/destructor for the DLST.
!
! The prototypes of these functions are expected to be:
!   void <initializer>(void);
!   void <finalizer> (void);
! Define these functions in the 'model prolog' section. Note that these
! are optional. You can have one or both or none.
!initializer:my_init
!finalizer:my_finit

% model prolog iou
! This code will be copied unchanged to the start of the generated .c file
! Include definitions, declarations, include statements that
! are used in the model
! You can include stubs for the functions that are not ready yet but are
! invoked.
!
If you choose to have pretest and posttest functions include them here.
!
! "model prolog " accepts additional keywords.
! dt - This is meaningful in automation environments. If the test you are

```

```

!   creating alters global state then use "dt" keyword. This informs
!   automation framework that device should be reloaded prior to
!   running next test.
! iou - Use this keyword if the test can be executed under IOU.
! preinit - Use this if the test executes prior to system initialization.
! % model prolog dt

#include IOS_INC(testtools/sesutlib_ios.h)
#include <routing/iprouting_cmn/include/ip_stats.h>
#include <routing/iprouting_cmn/include/iprouting_debug.h>
#include <routing/iprouting_cmn/include/router_af_actions_registry.h>

boolean sesrc;

% model digraph
! Describe the model. You have structured your test as a
! directed graph. Start keywords in column 1. Start the code at an
! offset(2TABS). This line("model digraph") can have an optional keyword.
! That is "vdag".
! This would generate testcases representing various
! acyclic paths leading from the start node. These tests cover all nodes.
! This does not guarantee that all the edges are covered.
! If your test model is a tree(or hierarchical) or a DAG(Directed Acyclic
! Graph) then you should use this keyword.
!% model digraph vdag
! There are three keywords. They are
! start node <nodeIdentifier> - Specify the start node in the model
! node <nodeIdentifier>: - Begining of a node description.
!     Include descriptions for all edges starting at this node.
!     If there is code to be executed upon entry to this node
!     enter that immediatly following this line but before
!     entering any edge description.
! -><nodeIdentifier>: - Begining of an edge description. This describes an
!     edge from the node to &lt;n>
! Choose <nodeIdentifier> to be descriptive. Examples: AVLTreeInsert,
!     DBSearch, DetachLine
!
! These identifiers are used during runtime to present execution times
! and other data.
! You can specify parameters for your unit test as follows:
!parameters:(uint interface, char* hostname="abc", uint subInterface=1)
!This should come before the line specifying the start node.
!The parameters can be used in the code for nodes/edges. The values
!for parameters are received via CLI or as a result of direct invocation of
!the generated function. Parameters can be of type 'uint'
!or 'char*'. If values for parameters are provided on CLI defaults are used.
! You should provide default values. If default values are not specified
! then the tool would assign default values. If the type is "uint" the

```

```

! default value is 0. Else(type char*) the default value is "".
! During automation the default values are used. Use descriptive names
! for parameters.
start node StartNode
! You can place initialization code that needs to be executed
! prior to entering the start node here.
node StartNode:

!
===== 6 APIs from ip_stats.h/ip_registry.reg =====

! 1. DEFINE show_ip_interface_with_topo

(void) sesut_execcommand(FALSE, "show ip interface e0/0 topology base stats");
printf("\n----- SESUT Test Reg: show_ip_interface_with_topo -----");

! 2. DEFINE clear_ip_interface_with_topo

(void) sesut_execcommand(FALSE, "clear ip interface e0/0 topology base stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_with_topo -----");

! 3. DEFINE show_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "show ip traffic topology base");
printf("\n----- SESUT Test Reg: show_ip_traffic_with_topo -----");

! 4. DEFINE clear_ip_traffic_with_topo

(void) sesut_execcommand(FALSE, "clear ip traffic topology base");
printf("\n----- SESUT Test: clear_ip_traffic_with_topo -----");

! 5. DEFINE show_ip_interface_stats

(void) sesut_execcommand(FALSE, "show ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: show_ip_interface_stats -----");

! 6. DEFINE clear_ip_interface_stats

(void) sesut_execcommand(FALSE,
"clear ip interface e0/0 stats");
printf("\n----- SESUT Test Reg: clear_ip_interface_stats -----");

! ===== 2 APIs from iprouting_debug.h =====

! 1. void
!  iprouting_debug_arr_ios_set_csb(struct parseinfo_ *csb);

!iprouting_debug_arr_ios_set_csb(NULL);

```

```
printf("\n----- SESUT Test: iprouting_debug_arr_ios_set_csb() -----");
```

```
! 2. void
```

```
! iprouting_ios_call_debug_cmd(struct parseinfo_ *csb);
```

```
!iprouting_ios_call_debug_cmd(NULL);
```

```
printf("\n----- SESUT Test: iprouting_ios_call_debug_cmd() -----");
```

```
! ===== 1 API from router_af_actions_registry.reg =====
```

```
! 1. DEFINE address_family_action_named_router REMOTE 3
```

```
sesrc = reg_invoke_address_family_action_named_router(NULL);
```

```
printf("\n----- SESUT Test Reg: address_family_action_named_router -----");
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-  
tar/iprouting_cmn/test/iproutingcmn_router_cmd.sesut
```

No license file was found, but licenses were detected in source scan.

```
/*-----
```

```
* route_map_registry.c
```

```
*
```

```
* July 2001, Siva Yaragalla
```

```
*
```

```
* Copyright (c) 2001, 2003, 2007-2008 by cisco Systems, Inc.
```

```
* All rights reserved.
```

```
/*-----
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/route_map_registry.c
```

No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_routemap_match_policy.h,v 3.3 1995/11/28 19:50:34 widmer Exp $
```

```
* $Source: /swt/cherf.111/ios/sys/iprouting/cfg_routemap_match_policy.h,v $
```

```
/*-----
```

```
* cfg_routemap_match_policy.h -- Route map match clauses for policy
```

```
* routing.
```

```
*
```

```
* Mar 1995 Tony Li
```

```
*
```

```
* Copyright (c) 1995, 2001-2002, 2007-2009, 2014-2015 by cisco Systems, Inc.
```

```
* All rights reserved.
```

```
/*-----
```

```
* $Log: cfg_routemap_match_policy.h,v $
```

```
* Revision 3.3 1995/11/28 19:50:34 widmer
```

```
* CSCdi44251: Replace Ifelse(csb->in_help)/Eval with Func
```

```

*
* Revision 3.2 1995/11/17 17:31:48 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:10 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.3 1995/06/21 18:16:00 widmer
* CSCdi36227: Fix parse chain alternates
*
* Revision 2.2 1995/06/15 15:18:44 widmer
* CSCdi35889: parser transition structures should be static
*
* Revision 2.1 1995/06/07 21:05:32 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-
tar/iprouting_cmn/include/cfg_routemap_match_policy.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id: ip_prefixlist.h,v 3.1.2.3 1998/02/23 19:43:44 enkechen Exp $
* $Source: /release/111/cvs/Xsys/ip/ip_prefixlist.h,v $
*-----

```

```

* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2008, 2010 by cisco Systems, Inc.
* All rights reserved.
*-----

```

```

* $Log: ip_prefixlist.h,v $
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:34 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 01:02:13 enkechen
* CSCdj77191: Reduce several chunk size parameters to save memory
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen

```

\* CSCdj61356: Prefix-list - facility for efficient route filtering

\* Branch: FIB\_branch

\*

\* Revision 3.1 1997/12/17 01:46:32 enkechen

\* Start with the new file.

\*

\*-----

\* \$Endlog\$

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/ip\_prefixlist.h

No license file was found, but licenses were detected in source scan.

/\*

\*-----

\* routemap\_internal.h

\*

\* Route map support data structures.

\* To be included only by routemap code.

\*

\* Copyright (c) 1986-2003, 2005-2009, 2011, 2013-2015, 2018 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/routemap\_internal.h

No license file was found, but licenses were detected in source scan.

/\*-----

\* iprouting\_cmn.c

\*

\* This file has global definitions common to blob and iprouting proceses.

\*

\* Copyright (c) 2002-2009, 2011, 2013 by cisco Systems, Inc.

\* All rights reserved.

\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_cmn.c

No license file was found, but licenses were detected in source scan.

/\* \$Id\$

\* \$Source\$

\*-----

```
* Exit from BGP Address Family mode.
*
* Sept 1998, Bob Thomas
*
* Copyright (c) 1998-1999, 2007-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_af_exit.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* cfg_router_flash-threshold.h
*
* January 1998, 2001 Dawn Li
*
* Copyright (c) 1998-1999, 2001, 2007-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/cfg_router_flash-
threshold.h
No license file was found, but licenses were detected in source scan.
```

```
# $Id$
#
#-----
#
# iprouting.startup - ION iprouting process .startup file
#
# October, 2001, Fan Kong
#
#-----
#
# Copyright (c) 2001-2002, 2004-2007 by cisco Systems, Inc.
# All rights reserved.
```



#  
#-----

name:iprouting.iosproc  
path:/sbin  
feature:iprouting  
level:100  
envs:RLIMIT\_NOFILE=65535

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting.startup

No license file was found, but licenses were detected in source scan.

```
/* $Id$
 * $Source$
 *-----
 * IP routing parse chains
 *
 * May 1993, Robert Widmer
 *
 * Copyright (c) 1993-2012, 2015-2016 by cisco Systems, Inc.
 * All rights reserved.
 *
 *-----
 * $Log$
 *-----
 * $Endlog$
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_chain.c

No license file was found, but licenses were detected in source scan.

```
/*
 *-----
 * cfg_router_topology_mode.h - router topology configuration sub mode
 * commands.
 *
 * Sept 2004, Mercia Zheng
 *
 * Copyright (c) 2004, 2007-2008 by cisco Systems, Inc.
 * All rights reserved.
 *-----
 */
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/cfg\_router\_topology\_mode.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: cfg_router.h,v 3.2.60.2 1996/08/12 16:03:38 widmer Exp $
* $Source: /release/112/cvs/Xsys/iprouting/cfg_router.h,v $
*-----
* C F G _ R O U T E R . H
*
* Enter router subcommand mode
*
* Copyright (c) 1992-2002, 2005, 2007-2009, 2015, 2017-2018 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: cfg_router.h,v $
* Revision 3.2.60.2 1996/08/12 16:03:38 widmer
* CSCdi65725: Create Eolns macro that defaults csb->which to 0
* Branch: California_branch
* Add Eolns and Nvgenns macro that default csb->which to 0
* Remove hidden keyword help strings
*
* Revision 3.2.60.1 1996/04/15 21:17:43 bcole
* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature
* commit
* Branch: California_branch
*
* Revision 3.2 1995/11/17 17:31:56 hampton
* Remove old
  entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:05:20 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.1 1995/07/01 12:15:46 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:12:17 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/cfg_router.h
```

No license file was found, but licenses were detected in source scan.

```
/* $Id
* $Source
```

```

*-----
* iprib_api_svr.c -- IP Routing Information Base (RIB) API definitions
*
* August-2001, Fan Kong
*
* Copyright (c) 2001-2012, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log
*-----
* $Endlog$
*/

```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprib\_api\_svr.c

No license file was found, but licenses were detected in source scan.

```

/*
*-----
* route_map_blob.c -- Route Map Subsystem
*
* Aug 2001, Siva Yaragalla
*
* Copyright (c) 2001-2012, 2014-2018 by cisco Systems, Inc.
* All rights reserved.
*-----
*/

```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/route\_map\_blob.c

No license file was found, but licenses were detected in source scan.

```

#-----
# iproutingcmn_router_cmd.run-doxxygen -- Run-doxxygen Configuration File for
#       IP Routing Common Router Commands
#
# December 2007, Chi Iong Ansjory
#
# Copyright (c) 2007-2008, 2012 by cisco Systems, Inc.
# All rights reserved.
#-----

```

```

#-----
# RUN-DOXYGEN CONFIG FILE
#
# The variables defined in this file are used by the run-doxxygen script to
# execute doxygen and generate API documentation.
# This file will be sourced by a bourne shell script (/bin/sh)

```

```

# and so must follow the bourne shell script syntax
#
# This default configuration file is setup to work for the XOS project.
# If you want to reuse it, you must customize the properties below in order to
# make it work for your project.

#
# For more help contact doxygen-trolls@cisco.com
#-----

# The PROJECT_NAME variable is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.

PROJECT_NAME=IPROUTINGCMN_ROUTER_CMD

# The PROJECT_NUMBER tag can be used to enter a project or revision number.
# This could be handy for archiving the generated documentation or
# if some version control system is used.

PROJECT_NUMBER=0.1.0.2

# The latest version of doxygen can be picked on the shared storage
# of the XOS/Component Framework team
# This executable can only run on linux 2.6 !!!!
#DOXYGEN=/auto/ios_comp/tools/doxygen-1.5.4/bin/doxygen
# Change this sanity check when doxygen will be supported for other hosts
#host=`uname -s`
#host_version=`uname -r`
#if [ $host != "Linux" ]; then
#  echo "Error: this wrapper can only be executed from Linux"
#  exit
#fi
#if [ $host_version \< "2.6" ]; then
#  echo "Error:
#  this wrapper requires Linux 2.6 or higher"
#  exit
#fi
#
#
# The location of the latex suite, this is needed only if the PDF
# generation option is used (-f)
# This binary is also only available on linux 2.6
#
#LATEX_PATH=/auto/ios_comp/tools/tetex/bin/i686-pc-linux-gnu
#LATEX_PATH=/usr/bin
#
#-----

```

# Use this variable to specify one or more wildcard pattern (like \*.cpp  
# and \*.h) to filter out the source-files in the directories.

```
FILE_PATTERNS="ip_stats.h iprouting_debug.h router_af_actions_registry.regh"
```

# Exclude all internal defines (defines used to guard against multiple  
# inclusions of the same header file)

```
EXCLUDE_SYMBOLS="__*_H__ reg_add* reg_delete* service_* reg_used* \  
_reg_add* reg_inv_* reg_svr* _registry_* registry* REG_ELOG *_GEN_ID \  
*_DEFINED *_argt *_res \  
bgp* ospf* debug* route_debug* igrp* ipcache* ipproc* ip_mobile* netred* \  
iprouting_acl DEBUG_ROUTING_PROT MISC_DEBUG_VARS \  
DEBUG_ROUTING* \  
ALTP_BGF* __DEBUG_FLAGS* \  
iprouting_debug_init iprouting_set_debug_array iprouting6_debug_list_command \  
iprouting_debug_list_command iprouting_nsap_debug_list_command \  
iprouting_debug_acl_notify \  
reg_invoke_address_family_action_get_entries \  
reg_invoke_address_family_action_nvgen_exit"
```

# When all symbols in a project start with a common prefix, by default all  
# symbols will be put under the same header in the alphabetical index.  
# The IGNORE\_PREFIX tag can be used to specify one or more prefixes that  
# should be ignored while generating the index headers. This will allow  
# to spread the symbol index more evenly.

```
IGNORE_PREFIX="xos_XOS_"
```

# If the EXTRACT\_ALL tag is set to YES doxygen will assume all entities in  
# documentation are documented, even if no documentation was available.  
# Private class members and static file members will be hidden unless  
# the EXTRACT\_PRIVATE and EXTRACT\_STATIC tags are set to YES

```
EXTRACT_ALL=YES
```

# If the EXTRACT\_STATIC tag is set to  
YES all static members of a file  
# will be included in the documentation.

```
EXTRACT_STATIC=YES
```

# If the HIDE\_UNDOC\_MEMBERS tag is set to YES, Doxygen will hide all  
# undocumented members of documented classes, files or namespaces.  
# If set to NO (the default) these members will be included in the  
# various overviews, but no documentation section is generated.  
# This option has no effect if EXTRACT\_ALL is enabled.

```
HIDE_UNDOC_MEMBERS=NO
```

```

#-----
# VARIABLES RELATED TO DOXYGEN OUTPUT

# This is the root of the destination folder (local variable)
# Note that the archive area and the workspace area do not have to share the
# same destination root.
DST_BASE=/auto/ios_comp/iprouting_cmn

# This is the URL through which the DST_BASE folder can be accessed
# from the intranet. This URL depends on the location of the storage.
# Contact IT to find out the correct URL.
# (Local variable)
URL_DST_BASE=http://sjc-filer29a-web/projects/ios_comp/iprouting_cmn

#
# --- WORKSPACE AREA
# Relative path (to DST_BASE) - used by OUTPUT_WORKSPACE (local variable)
WORKSPACE_FOLDER=api-docs

# This is the full pathame of the root under which all normal output folders will be located
OUTPUT_WORKSPACE=$DST_BASE/$WORKSPACE_FOLDER

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_WORKSPACE=$URL_DST_BASE/$WORKSPACE_FOLDER

# --- ARCHIVE AREA
# Relative path (to DST_BASE) - used by OUTPUT_ARCHIVE (local variable)
ARCHIVE_FOLDER=archive/xoslib

# This is the full pathame of the root under which all archive output folders will be located
OUTPUT_ARCHIVE=$DST_BASE/$ARCHIVE_FOLDER

# This is the URL of the above OUTPUT_WORKSPACE directory
# Only used for displaying where to access the documentation after the doxygen run
URL_ARCHIVE=$URL_DST_BASE/$ARCHIVE_FOLDER

#-----
#
# VARIABLES RELATED TO DOXYGEN INPUT

# This is the root of the API source code (local variable)
SRC_BASE=/vob/cisco.comp/routing/iprouting_cmn

# This is the location of all the API public header files (or directories)
# In XOS all public header files are located in one directory
API_PUBLIC="$SRC_BASE/include $SRC_BASE/include/reg"

```

```
#API_PUBLIC="$SRC_BASE/include"
```

```
# This is the location of all the API source code, used with option -all only  
# if you want to generate doxygen documentation for the source code  
# (only useful for internal code review)  
# Do not put the content of API_PUBLIC as it is added automatically  
API_ALL="$SRC_BASE/shared $SRC_BASE/ios $SRC_BASE/iox $SRC_BASE/linux"
```

```
# The EXAMPLE_PATH tag can be used to specify one or more files or  
# directories that contain example code fragments that are included (see  
# the @example command).
```

```
EXAMPLE_PATH=$SRC_BASE/test/src
```

```
# The IMAGE_PATH tag can be used to specify one or more  
# directories that contain image that are included  
# in the documentation (see  
# the @image command).  
# This is only used/relevant if you have images in your API documentation.
```

```
IMAGE_PATH=$DST_BASE/api-docs-images
```

```
Found in path(s):
```

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-  
tar/iprouting_cmn/docs/iproutingcmn_router_cmd.run-doxygen  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$  
*-----  
* router_topology_chain.c - Parser chains of router topology sub mode  
*   for multi-topology routing support  
* Sept 2004, Mercia Zheng  
*  
* Copyright (c) 2004-2010, 2019 by cisco Systems, Inc.  
* All rights reserved.  
*-----  
* $Log$  
*-----  
* $Endlog$  
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/router_topology_chain.c  
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$  
* $Source$
```

```
*-----
* route1.c -- Routing Support: Common Routines
*
* 22-March-1986, Kirk Lougheed
*
* Copyright (c) 1986-2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/route1.c

No license file was found, but licenses were detected in source scan.

```
/*-----
* router_af_parse.c
*
* Route Address Family command and action definitions. Derived from
* router_af_chain.c
*
* May 2002, Victor Kamensky
*
* Copyright (c) 2002-2010, 2012, 2014-2016, 2019 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_parse.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: exec_debug_ip_routing.h,v 3.3.20.1 1996/06/27 04:40:57 mikel Exp $
* $Source: /release/112/cvs/Xsys/iprouting/exec_debug_ip_routing.h,v $
*-----
* IP routing debug commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2003, 2005-2009, 2019 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log: exec_debug_ip_routing.h,v $
* Revision 3.3.20.1 1996/06/27 04:40:57 mikel
* CSCdi37749: <debug ip eigrp> help wrong
```



```

* Branch: California_branch
* clean up ip-egrp AS debugging
*
* Revision 3.3 1996/02/01 23:34:07 widmer
* CSCdi45325: Change Keyword/Set to use Keyword_Id macro
*
* Revision 3.2 1995/11/17 17:33:17 hampton
* Remove old entries from the RCS header logs.
*
* Revision 3.1 1995/11/09 12:07:09 shaker
* Bump version numbers from 2.x to 3.x.
*
* Revision 2.2 1995/11/08 21:06:22 shaker
* Merge Arkansas_branch into 11.1 mainline.
*
* Revision 2.1 1995/07/01 12:16:15 tli
* CSCdi36508: Rationalize parser file placement, part I
* Rationalize iprouting
*
* Revision 2.1 1995/06/07 22:18:58 hampton
* Bump version numbers from 1.x to 2.x.
*
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_debug_ip_routing.h
No license file was found, but licenses were detected in source scan.

```

```

/* $Id$
* $Source$
*-----
* IP routing show commands
*
* May 1993, Robert Widmer
*
* Copyright (c) 1993-2003, 2005, 2007-2011, 2013, 2015-2020 by cisco Systems, Inc.
* All rights reserved.
*
*-----
* $Log$
*-----
* $Endlog$
*/

```

Found in path(s):

```

* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/exec_show_ip_routing.h

```

No license file was found, but licenses were detected in source scan.

```
/* $Id: ip_prefixlist.c,v 1.1 2011/02/02 21:47:40 vkoshi Exp vkoshi $
* $Source: /view/vkoshi-
comp_routing_rel5.rel4_1_1_19.2460.ss.comp1.port/vob/ss.comp1/routing/iprouting_cmn/src/ip_prefixlist.c,v $
*-----
* Generic prefix list support.
*
* June 1997, Enke Chen
*
* Copyright (c) 1997-2012, 2016, 2020 by cisco Systems, Inc.
* All rights reserved.
*-----
* $Log: ip_prefixlist.c,v $
* Revision 1.1 2011/02/02 21:47:40 vkoshi
* checkin by port_commit
*
* Revision 3.1.2.4 1998/03/20 17:03:32 enkechen
* CSCdj88889: Prefix-list: sho ip prefix-list summ does not pause
* Branch: FIB_branch
*
* Revision 3.1.2.3 1998/02/23 19:43:44 enkechen
* CSCdj75270: Prefix-list: optimization for downloading large lists
* Branch: FIB_branch
*
* Revision 3.1.2.2 1998/02/11 01:55:32 soma
* Merge FIB_L3 branch into FIB branch
*
* Revision 3.1.2.1.8.1 1998/01/29 00:59:02 enkechen
* CSCdj77190: Prefix-list: mishandling of long prefix-list names
* Branch: FIB_L3_branch
*
* Revision 3.1.2.1 1997/12/17 21:37:00 enkechen
* CSCdj61356: Prefix-list - facility for efficient route filtering
* Branch: FIB_branch
*
* Revision 3.1 1997/12/17 01:46:33 enkechen
* Start with the new file.
*
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ip_prefixlist.c
```

No license file was found, but licenses were detected in source scan.

```
/* $Id$
```

```
* $Source$
*-----
* iprouting_parser.h -- IP routing parser API header file
*
* April - 2007, Selva Subramanian
*
* Copyright (c) 2001-2009 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_parser.h
No license file was found, but licenses were detected in source scan.
```

```
/* $Id$
* $Source$
*-----
* iprouting_debug.c -- Debugging routines for IP routing
*
* May 1993, John Bashinski
*
* Copyright (c) 1993-2010, 2019 by Cisco Systems, Inc.
* All rights reserved.
*-----
* $Log$
*-----
* $Endlog$
*/
```

Found in path(s):

```
* /opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/iprouting_debug.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* iprouting_common.h - Basic types for IP routing (IPv4/IPv6)
*
* Contains:
* - address family enum,
* - tableid type and related macros
* - topoid type and related macros
* - private topoid definitions and APIs
* - generic non-routing ID definitions/APIs
*
* Warning: this file should not have any dependency on other header file
* except those where basic C types are defined.
*
* June 2003, Luc Revardel
```

\*  
\* Copyright (c) 2003-2013, 2016, 2018, 2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/iprouting\_common.h  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----  
\* exec\_debug\_routemap.h -- Debugging for Route-map IPC  
\*  
\* July 1998, Wilber Su  
\*  
\* Copyright (c) 1998, 2001-2002, 2004-2008 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/include/exec\_debug\_routemap.h  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* routemap\_api\_util.c -- Dynamic routemap API utility functions.  
\*  
\* May 2003, Tanya Shastri  
\*  
\* Copyright (c) 2003, 2005-2010, 2020 by cisco Systems, Inc.  
\* All rights reserved.  
\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/routemap\_api\_util.c  
No license file was found, but licenses were detected in source scan.

/\*-----  
\* router\_af\_actions\_registry.c  
\*  
\* Router address family actions registry.  
\*  
\* May 2002, Victor Kamensky  
\*  
\* Copyright (c) 2002-2004, 2007-2008 by cisco Systems, Inc.  
\* All rights reserved.

\*-----  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/router\_af\_actions\_registry.c  
No license file was found, but licenses were detected in source scan.

/\* \$id: iprouting\_actions.c,v 3.2.60.2 1996/08/23 22:02:29 jserpa Exp \$  
\* \$Source: /release/112/cvs/Xsys/iprouting/iprouting\_actions.c,v \$

\*-----

\* IP routing specific parsing functions.  
\*  
\* August 1994, Bruce Cole  
\*  
\* Copyright (c) 1994-2010, 2012, 2015, 2017-2018 by cisco Systems, Inc.  
\* All rights reserved.

\*-----

\* \$Log: iprouting\_actions.c,v \$  
\* Revision 3.2.60.2 1996/08/23 22:02:29 jserpa  
\* CSCdi67021: router ospf <as> gets nv-ramed in reverse order of  
\* configuration  
\* Branch: California\_branch  
\*  
\* Revision 3.2.60.1 1996/04/15 21:18:11 bcole  
\* CSCdi54649: IP Host Modularity, IP Automatic Stub Routing feature  
\* commit  
\* Branch: California\_branch  
\*  
\* Revision 3.2 1995/11/17 17:34:38 hampton  
\* Remove old entries from the RCS header logs.  
\*  
\* Revision 3.1 1995/11/09  
12:08:28 shaker  
\* Bump version numbers from 2.x to 3.x.  
\*  
\* Revision 2.1 1995/06/07 21:07:33 hampton  
\* Bump version numbers from 1.x to 2.x.  
\*  
\*-----

\* \$Endlog\$  
\*/

Found in path(s):

\* /opt/cola/permits/1210919029\_1633472893.55/0/iproute-254-tar/iprouting\_cmn/src/iprouting\_actions.c  
No license file was found, but licenses were detected in source scan.

/\*  
\*-----

```
* ipv4_subsys.c - IPv4 Routing Startup Subsystem
*
* July 2005, Mark Schaefer
*
* Copyright (c) 2005-2010, 2013 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/src/ipv4_subsys.c
No license file was found, but licenses were detected in source scan.
```

```
/*-----
* route3_parse.h
*
* Route parser functions declarations.
*
* March 2002, Victor Kamensky
*
* Copyright (c) 2002, 2005-2008 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/internal_inc/route3_parse.h
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* routemap_track.h -- Route map support for tracking
*
* March 2003 Shyan Wignarajah
*
* Copyright (c) 2003, 2006-2008, 2010, 2012-2014 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1210919029_1633472893.55/0/iproute-254-tar/iprouting_cmn/include/routemap_track.h
```

## 1.610 chkconfig 1.13-2.el8

## 1.610.1 Available under license :

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Version 2, June 1991

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## 1.611 libtasn 4.13-3.el8

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Version 3, 29 June 2007

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```
# COPYING.other                *- org *-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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# 1.617 python3-libdnf 0.55.0-1.el8

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The

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## 1.620 cryptography 3.3.1

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/lookup.c  
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/byaddr.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/diff.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/lwres/lwconfig.c

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\* BINOS specific changes to associate memcluster with an evctx

\*

\* March 2014,

Aswin Kuppusami

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\* To compute the message digest of a chunk of bytes, declare an  
\* MD5Context structure, pass it to MD5Init, call MD5Update as  
\* needed on buffers full of bytes, and then call MD5Final, which  
\* will fill a supplied 16-byte array with the digest.  
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-->

<!-- \$Id: lwres\_context.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

```

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<date>Jun 30, 2000</date>
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
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<refnamediv>
<refname>lwres_context_create</refname>
<refname>lwres_context_destroy</refname>
<refname>lwres_context_nextserial</refname>
<refname>lwres_context_initserial</refname>
<refname>lwres_context_freemem</refname>
<refname>lwres_context_allocmem</refname>
<refname>lwres_context_sendrecv</refname>
<refpurpose>lightweight resolver context management</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
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lwres_result_t
<function>lwres_context_create</function></funcdef>
<paramdef>lwres_context_t **contextp</paramdef>
<paramdef>void *arg</paramdef>
<paramdef>lwres_malloc_t malloc_function</paramdef>
<paramdef>lwres_free_t free_function</paramdef>
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lwres_result_t
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**contextp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_context_initserial</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t serial</paramdef>
</funcprototype>
<funcprototype>

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lwres_uint32_t
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<paramdef>void *mem</paramdef>
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<funcdef>
void *
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*ctx</paramdef>
<paramdef>void *sendbase</paramdef>
<paramdef>int sendlen</paramdef>
<paramdef>void *recvbase</paramdef>
<paramdef>int recvlen</paramdef>
<paramdef>int *recvd_len</paramdef>
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<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_context_create()</function>
creates a
<type>lwres_context_t</type>
structure for use in lightweight resolver operations.
It holds a socket and other data needed for communicating
with a resolver daemon.
The new
<type>lwres_context_t</type>
is returned through
<parameter>contextp</parameter>,

```

a pointer to a  
<type>lwres\_context\_t</type>  
pointer. This  
<type>lwres\_context\_t</type>  
pointer must initially be NULL, and is modified  
to point to the newly created  
<type>lwres\_context\_t</type>.

</para>

<para>

When the lightweight resolver needs to perform dynamic memory  
allocation, it will call

<parameter>malloc\_function</parameter>

to allocate memory and

<parameter>free\_function</parameter>

to

free it. If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL, memory is allocated using

.Xr malloc 3

and

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

It is not permitted to have a NULL

<parameter>malloc\_function</parameter>

and a non-NULL

<parameter>free\_function</parameter>

or vice versa.

<parameter>arg</parameter>

is passed as the first parameter to the memory  
allocation functions.

If

<parameter>malloc\_function</parameter>

and

<parameter>free\_function</parameter>

are NULL,

<parameter>arg</parameter>

is unused and should be passed as NULL.

</para>

<para>

Once memory for the structure has been allocated,

it is initialized using

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>

and returned via

<parameter>\*contextp</parameter>.

</para>

<para>

<function>lwres\_context\_destroy(</function>

destroys a

<type>lwres\_context\_t</type>,

closing

its socket.

<parameter>contextp</parameter>

is a pointer to a pointer to the context that is to be destroyed.

The pointer will be set to NULL when the context has been destroyed.

</para>

<para>

The context holds a serial number that is used to identify resolver request packets and associate responses with the corresponding requests.

This serial number is controlled using

<function>lwres\_context\_initserial(</function>

and

<function>lwres\_context\_nextserial(</function>.

<function>lwres\_context\_initserial(</function>

sets the serial number for context

<parameter>\*ctx</parameter>

to

<parameter>serial</parameter>.

<function>lwres\_context\_nextserial(</function>

increments the serial number and returns the previous value.

</para>

<para>

Memory for a lightweight resolver context is allocated and freed using

<function>lwres\_context\_allocmem(</function>

and

<function>lwres\_context\_freemem(</function>.

These use whatever allocations were defined when the context was created

with

<function>lwres\_context\_create(</function>.

<function>lwres\_context\_allocmem(</function>

allocates

<parameter>len</parameter>

bytes of memory and if successful returns a pointer to the allocated storage.

<function>lwres\_context\_freemem()</function>

frees

<parameter>len</parameter>

bytes of space starting at location

<parameter>mem</parameter>.

</para>

<para>

<function>lwres\_context\_sendrecv()</function>

performs I/O for the context

<parameter>ctx</parameter>.

Data are read and written from the context's socket.

It writes data from

<parameter>sendbase</parameter>

&mdash; typically a lightweight resolver query packet &mdash;

and waits for a reply which is copied to the receive buffer at

<parameter>recvbase</parameter>.

The number of bytes that were written to this receive buffer is returned in

<parameter>\*recvd\_len</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_context\_create()</function>

returns

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

if

memory for the

<type>struct lwres\_context</type>

could not be allocated,

<errorcode>LWRES\_R\_SUCCESS</errorcode>

otherwise.

</para>

<para>

Successful calls to the memory allocator

<function>lwres\_context\_allocmem()</function>

return a pointer to the start of the allocated space.

It returns NULL if memory could not be allocated.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>



is returned when

<function>lwres\_context\_sendrecv()</function>

completes successfully.

<errorcode>LWRES\_R\_IOERROR</errorcode>

is returned if an I/O error occurs and

<errorcode>LWRES\_R\_TIMEOUT</errorcode>

is returned if

<function>lwres\_context\_sendrecv()</function>

times out waiting for a response.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>free</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>.

</para>

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in path(s):

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\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/parseint.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/check.c

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; \$Id: bindevt.mc.v 1.1 2004/11/03 01:39:06 abstine Exp \$

MessageIdTypedef=DWORD

LanguageNames = (English=0x409:MSG00409)

OutputBase

= 16

MessageId=0x1

Severity=Error

Facility=Application

SymbolicName=BIND\_ERR\_MSG

Language=English

% 1

.

MessageId=0x2

Severity=Warning

Facility=Application

SymbolicName=BIND\_WARN\_MSG

Language=English

% 1

.

MessageId=0x3

Severity=Informational

Facility=Application

SymbolicName=BIND\_INFO\_MSG

Language=English

% 1

.

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/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/hash.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/nsec\_47.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/stat.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/portlist.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/ifiter\_getifaddrs.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/nsec\_47.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/stdlib.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/portlist.h

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/log.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/log.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/afsdh_18.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/px_26.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/rt_21.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/kx_36.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/print.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/nsec.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/db.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/tkey.c
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/isc/ctl\_p.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/include/isc/ctl.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_cidr\_pton.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_cidr\_ntop.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/isc/ctl\_clnt.c

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```

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```

```
*
```

```
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/isc/eventlib.h
```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/ev_timers.c
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/eventlib_p.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/ev_connects.c
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```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/isc/misc.h
```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/eventlib.c
```

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Found in path(s):

\*/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gai\_strerror.c

\*

\*/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/isc/hex.c

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/\*

\* This is the header file for the MD5 message-digest algorithm.  
\* The algorithm  
is due to Ron Rivest. This code was  
\* written by Colin Plumb in 1993, no copyright is claimed.  
\* This code is in the public domain; do with it what you wish.  
\*  
\* Equivalent code is available from RSA Data Security, Inc.  
\* This code has been tested against that, and is equivalent,  
\* except that you don't need to include two pages of legalese  
\* with every copy.  
\*  
\* To compute the message digest of a chunk of bytes, declare an  
\* MD5Context structure, pass it to MD5Init, call MD5Update as  
\* needed on buffers full of bytes, and then call MD5Final, which  
\* will fill a supplied 16-byte array with the digest.  
\*  
\* Changed so as no longer to depend on Colin Plumb's `usual.h'  
\* header definitions; now uses stuff from dpkg's config.h  
\* - Ian Jackson <ijackson@nyx.cs.du.edu>.  
\* Still in the public domain.  
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*/
```

Found in path(s):

```
*/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/apl_42.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/opcode.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/dst_openssl.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/win32/lwconfig.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/isc/include/isc/isc/namedconf.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/order.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/win32os.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/order.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/ds_43.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/win32os.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/apl_42.c
```

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# \$Id: includes.in,v 1.1 2004/11/03 01:39:04 abstine Exp \$

# Search for machine-generated header files in the  
# build tree,  
# and for normal headers in the source tree (\${top\_srcdir}).  
# We only need to look in OS-specific subdirectories for the  
# latter case, because there are no machine-generated OS-specific  
# headers.

ISC\_INCLUDES = @BIND9\_ISC\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/isc \  
-I\${top\_srcdir}/lib/isc/include \  
-I\${top\_srcdir}/lib/isc/unix/include \  
-I\${top\_srcdir}/lib/isc/@ISC\_THREAD\_DIR@/include

ISCCFG\_INCLUDES = @BIND9\_ISCCFG\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/isccfg/include

DNS\_INCLUDES = @BIND9\_DNS\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/dns/include \  
-I\${top\_srcdir}/lib/dns/sec/dst/include

OMAPI\_INCLUDES = @BIND9\_OMAPI\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/omapi/include

LWRES\_INCLUDES = @BIND9\_LWRES\_BUILDINCLUDE@ \  
-I\${top\_srcdir}/lib/lwres/include

TEST\_INCLUDES = \  
-I\${top\_srcdir}/lib/tests/include

Found in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/make/includes.in

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/symtab.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/inet\_ntop.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/lwinetpton.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/symtab.c  
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Found in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_netof.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_makeaddr.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_lnaof.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_ntoa.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_network.c  
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/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:05 abstine Exp \$ \*/

#ifndef ISC\_PLATFORM\_H

#define

ISC\_PLATFORM\_H 1

/\*\*\*\*\*

\*\*\*\* Platform-dependent defines.

\*\*\*\*\*/

/\*\*\*

\*\*\* Network.

\*\*\*\*/

/\*

\* Define if this system needs the <netinet/in6.h> header file included  
\* for full IPv6 support (pretty much only UnixWare).

```

*/
@ISC_PLATFORM_NEEDNETINETIN6H@

/*
* Define if this system needs the <netinet6/in6.h> header file included
* to support in6_pkinfo (pretty much only BSD/OS).
*/
@ISC_PLATFORM_NEEDNETINET6IN6H@

/*
* If sockaddrs on this system have an sa_len field, ISC_PLATFORM_HAVESALEN
* will be defined.
*/
@ISC_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, ISC_PLATFORM_HAVEIPV6
* will be defined.
*/
@ISC_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, ISC_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback, ISC_PLATFORM_NEEDIN6ADDRLOOPBACK
* will be defined.
*/
@ISC_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in6_pktinfo,
ISC_PLATFORM_HAVEIN6PKTINFO will be
* defined.
*/
@ISC_PLATFORM_HAVEIN6PKTINFO@

/*
* If this system has in_addr6, rather than in6_addr, ISC_PLATFORM_HAVEINADDR6
* will be defined.
*/
@ISC_PLATFORM_HAVEINADDR6@

/*
* If this system has sin6_scope_id, ISC_PLATFORM_HAVESCOPEID will be defined.

```

```

*/
@ISC_PLATFORM_HAVESCOPEID@

/*
* If this system needs inet_ntop(), ISC_PLATFORM_NEEDNTOP will be defined.
*/
@ISC_PLATFORM_NEEDNTOP@

/*
* If this system needs inet_pton(), ISC_PLATFORM_NEEDPTON will be defined.
*/
@ISC_PLATFORM_NEEDPTON@

/*
* If this system needs inet_aton(), ISC_PLATFORM_NEEDATON will be defined.
*/
@ISC_PLATFORM_NEEDATON@

/*
* If this system needs in_port_t, ISC_PLATFORM_NEEDPORTT will be defined.
*/
@ISC_PLATFORM_NEEDPORTT@

/*
* If the system needs strsep(), ISC_PLATFORM_NEEDSTRSEP will be defined.
*/
@ISC_PLATFORM_NEEDSTRSEP@

/*
* If the system needs strcpy(), ISC_PLATFORM_NEEDSTRLCOPY will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCOPY@

/*
* If the
system needs strlcat(), ISC_PLATFORM_NEEDSTRLCAT will be defined.
*/
@ISC_PLATFORM_NEEDSTRLCAT@

/*
* Define either ISC_PLATFORM_BSD44MSGHDR or ISC_PLATFORM_BSD43MSGHDR.
*/
@ISC_PLATFORM_MSGHDRFLAVOR@

/*
* Define if PTHREAD_ONCE_INIT should be surrounded by braces to
* prevent compiler warnings (such as with gcc on Solaris 2.8).
*/

```



```

@ISC_PLATFORM_BRACEPTHREADONCEINIT@

/*
 * Define on some UnixWare systems to fix erroneous definitions of various
 * IN6_IS_ADDR_* macros.
 */
@ISC_PLATFORM_FIXIN6ISADDR@

/**
 *** Printing.
 ***/

/*
 * If this system needs vsnprintf() and snprintf(), ISC_PLATFORM_NEEDVSNPRINTF
 * will be defined.
 */
@ISC_PLATFORM_NEEDVSNPRINTF@

/*
 * If this system need a modern sprintf() that returns (int) not (char*).
 */
@ISC_PLATFORM_NEEDSPRINTF@

/*
 * The printf format string modifier to use with isc_uint64_t values.
 */
@ISC_PLATFORM_QUADFORMAT@

/*
 * Defined if we are using threads.
 */
@ISC_PLATFORM_USETHREADS@

/*
 * Defined if unistd.h does not cause
 * fd_set to be delared.
 */
@ISC_PLATFORM_NEEDSYSSELECTH@

/*
 * Type used for resource limits.
 */
@ISC_PLATFORM_RLIMITTYPE@

/*
 * Define if your compiler supports "long long int".
 */
@ISC_PLATFORM_HAVELONGLONG@

```

```

/*
 * Define if the system has struct lifconf which is a extended struct ifconf
 * for IPv6.
 */
@ISC_PLATFORM_HAVELIFCONF@

/*
 * Define if the system has struct if_laddrconf which is a extended struct
 * ifconf for IPv6.
 */
@ISC_PLATFORM_HAVEIF_LADDRCONF@

/*
 * Define if the system has struct if_laddrreq.
 */
@ISC_PLATFORM_HAVEIF_LADDRREQ@

/*
 * Used to control how extern data is linked; needed for Win32 platforms.
 */
@ISC_PLATFORM_USEDECLSPEC@

/*
 * Define if the system supports if_nametoindex.
 */
@ISC_PLATFORM_HAVEIFNAMETOINDEX@

/*
 * Define if this system needs strtoul.
 */
@ISC_PLATFORM_NEEDSTRTOUL@

/*
 * Define if this system needs memmove.
 */
@ISC_PLATFORM_NEEDMEMMOVE@

#ifndef ISC_PLATFORM_USEDECLSPEC
#define LIBISC_EXTERNAL_DATA
#define LIBDNS_EXTERNAL_DATA
#define
LIBISCCC_EXTERNAL_DATA
#define LIBISCCFG_EXTERNAL_DATA
#define LIBBIND9_EXTERNAL_DATA
#else /* ISC_PLATFORM_USEDECLSPEC */
#ifdef LIBISC_EXPORTS
#define LIBISC_EXTERNAL_DATA __declspec(dllexport)

```

```

#else
#define LIBISC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBDNS_EXPORTS
#define LIBDNS_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBDNS_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCC_EXPORTS
#define LIBISCCC_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCC_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBISCCFG_EXPORTS
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBISCCFG_EXTERNAL_DATA __declspec(dllimport)
#endif
#ifdef LIBBIND9_EXPORTS
#define LIBBIND9_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBBIND9_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif /* ISC_PLATFORM_USEDECLSPEC */

/*
 * Tell emacs to use C mode for this file.
 *
 * Local Variables:
 * mode: c
 * End:
 */

#endif /* ISC_PLATFORM_H */

Found
in path(s):
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/platform.h.in
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/sec/dst/openssldh\_link.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/sec/dst/openssldsa\_link.c

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mx\_15.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/time.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/task.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/result.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/time.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/rwlock.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/result.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/rwlock.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/base64.c

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/include/isccc/util.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/include/isccc/alist.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/include/isccc/ccmsg.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/base64.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/include/isccc/types.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/include/isccc/sexpr.h

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/include/isccc/lib.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/alist.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/symtab.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/include/isccc/symtab.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/include/isccc/symtype.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/include/isccc/cc.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/ccmsg.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/sexpr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/lib.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccc/include/isccc/base64.h
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```
*/
```

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```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/nameser/ns_samedomain.c
```

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```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

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-->

<!-- \$Id: lwres\_getaddrinfo.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getaddrinfo</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getaddrinfo</refname>

<refname>lwres\_freeaddrinfo</refname>

<refpurpose>socket address structure to host and service name</refpurpose>

</refnamediv>

<refsynopsisdiv>

<functsynopsis>

<functsynopsisinfo>#include <lwres/netdb.h></functsynopsisinfo>

<funcprototype>

<funcdef>

int

<function>lwres\_getaddrinfo</function></funcdef>

<paramdef>const char \*hostname</paramdef>

<paramdef>const char \*servname</paramdef>

<paramdef>const struct addrinfo \*hints</paramdef>

<paramdef>struct addrinfo \*\*res</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freeaddrinfo</function></funcdef>

<paramdef>struct addrinfo \*ai</paramdef>

</funcprototype>

</functsynopsis>

<para>

If the operating system does

not provide a

<type>struct addrinfo</type>,

the following structure is used:

```
<programlisting>
struct addrinfo {
    int      ai_flags;    /* AI_PASSIVE, AI_CANONNAME */
    int      ai_family;   /* PF_XXX */
    int      ai_socktype; /* SOCK_XXX */
    int      ai_protocol; /* 0 or IPPROTO_XXX for IPv4 and IPv6 */
    size_t   ai_addrlen;  /* length of ai_addr */
    char     *ai_canonname; /* canonical name for hostname */
    struct sockaddr *ai_addr; /* binary address */
    struct addrinfo *ai_next; /* next structure in linked list */
};
</programlisting>
```

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getaddrinfo()</function>

is used to get a list of IP addresses and port numbers for host

<parameter>hostname</parameter>

and service

<parameter>servname</parameter>.

The function is the lightweight resolver's implementation of

<function>getaddrinfo()</function>

as

defined in RFC2133.

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are pointers to null-terminated

strings or

<type>NULL</type>.

<parameter>hostname</parameter>

is either a host name or a numeric host address string: a dotted decimal IPv4 address or an IPv6 address.

<parameter>servname</parameter>

is either a decimal port number or a service name as listed in

<filename>/etc/services</filename>.

</para>

<para>

<parameter>hints</parameter>



is an optional pointer to a

`<type>struct addrinfo</type>`.

This structure can be used to provide hints concerning the type of socket that the caller supports or wishes to use.

The caller can supply the following structure elements in

`<parameter>*hints</parameter>`:

`<variablelist>`

`<varlistentry><term><constant>ai_family</constant></term>`

`<listitem>`

`<para>`The protocol family that should be used.

When

`<constant>ai_family</constant>`

is set to

`<type>PF_UNSPEC</type>`,

it means the caller will accept any protocol family supported by the operating system.

`</para></listitem></varlistentry>`

`<varlistentry><term><constant>ai_socktype</constant></term>`

`<listitem>`

`<para>`

denotes the type of socket &mdash;

`<type>SOCK_STREAM</type>`,

`<type>SOCK_DGRAM</type>`

or

`<type>SOCK_RAW</type>`

&mdash; that is wanted.

When

`<constant>ai_socktype</constant>`

is zero the caller will accept any socket type.

`</para>`

`</listitem>`

`</varlistentry>`

`<varlistentry><term><constant>ai_protocol</constant></term>`

`<listitem>`

`<para>`

indicates which transport protocol is wanted: IPPROTO\_UDP or IPPROTO\_TCP.

If

`<constant>ai_protocol</constant>`

is zero the caller will accept any protocol.

`</para>`

`</listitem>`

`</varlistentry>`

`<varlistentry><term><constant>ai_flags</constant></term>`

`<listitem>`

`<para>`

Flag bits.

If the

<type>AI\_CANONNAME</type>

bit is set, a successful call to

<function>lwres\_getaddrinfo()</function>

will return a null-terminated string containing the canonical name

of the specified hostname in

<constant>ai\_canonname</constant>

of

the first

<type>addrinfo</type>

structure returned.

Setting the

<type>AI\_PASSIVE</type>

bit indicates that the returned socket address structure is intended

for used in a call to

<citrefentry>

<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>.

In this case, if the hostname argument is a

<type>NULL</type>

pointer, then the IP address portion of the socket

address structure will be set to

<type>INADDR\_ANY</type>

for an IPv4 address or

<type>IN6ADDR\_ANY\_INIT</type>

for an IPv6 address.

</para>

<para>

When

<constant>ai\_flags</constant>

does not set the

<type>AI\_PASSIVE</type>

bit, the returned socket address structure will be ready

for use in a call to

<citrefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2

</manvolnum>

</citrefentry>

for a connection-oriented protocol or

<citrefentry>

<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>,

<citrefentry>

<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>

</citrefentry>.

or

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2  
</manvolnum>  
</citrefentry>

if

a connectionless protocol was chosen.

The IP address portion of the socket address structure will be set to the loopback address if

<parameter>hostname</parameter>

is a

<type>NULL</type>

pointer and

<type>AI\_PASSIVE</type>

is not set in

<constant>ai\_flags</constant>.

</para>

<para>

If

<constant>ai\_flags</constant>

is set to

<type>AI\_NUMERICHOST</type>

it indicates that

<parameter>hostname</parameter>

should be treated as a numeric string defining an IPv4 or IPv6 address and no name resolution should be attempted.

</para>

</listitem>

</varlistentry>

</variablelist>

</para>

<para>

All other elements of the <type>struct addrinfo</type> passed via <parameter>hints</parameter> must be zero.

</para>

<para>

A <parameter>hints</parameter> of <type>NULL</type> is treated as if the caller provided a <type>struct addrinfo</type> initialized to zero with <constant>ai\_family</constant> set

to

<constant>PF\_UNSPEC</constant>.

</para>

<para>

After a successful call to

`<function>lwres_getaddrinfo()`,  
`<parameter>*res`  
is a pointer to a linked list of one or more  
`<type>addrinfo`  
structures.  
Each  
`<type>struct addrinfo`  
in this list can be processed by following  
the  
`<constant>ai_next`  
pointer, until a  
`<type>NULL`  
pointer is encountered.  
The three members  
`<constant>ai_family`,  
`<constant>ai_socktype`,  
and  
`<constant>ai_protocol`  
in each  
returned  
`<type>addrinfo`  
structure contain the corresponding arguments for a call to  
`<citerefentry>`  
`<refentrytitle>socket``</refentrytitle>``<manvolnum>2``</manvolnum>`  
`</citerefentry>`.  
For each  
`<type>addrinfo`  
structure in the list, the  
`<constant>ai_addr`  
member points to a filled-in socket address structure of length  
`<constant>ai_addrlen`.

`<para>`  
All of the information returned by  
`<function>lwres_getaddrinfo()`  
is dynamically  
allocated: the `addrinfo` structures, and the socket  
address structures and canonical host name strings pointed to by the  
`<constant>addrinfo` structures.  
Memory allocated for the dynamically allocated structures created by  
a successful call to  
`<function>lwres_getaddrinfo()`  
is released by  
`<function>lwres_freeaddrinfo()`.  
`<parameter>ai`  
is a pointer to a  
`<type>struct addrinfo`

created by a call to  
<function>lwres\_getaddrinfo()</function>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getaddrinfo()</function>

returns zero on success or one of the error codes listed in

<citerefentry>

<refentrytitle>gai\_strerror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

if an error occurs.

If both

<parameter>hostname</parameter>

and

<parameter>servname</parameter>

are

<type>NULL</type>

<function>lwres\_getaddrinfo()</function>

returns

<errorcode>EAI\_NONAME</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citrefentry>  
<refentrytitle>RFC2133</refentrytitle>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>,</p></div>

<citrefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citrefentry>.  
</para></p></div>

</refsect1>  
</refentry></p></div>

Found</p></div>

in path(s):</p></div>

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.docbook  
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/include/bind9/version.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/zonekey.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/include/bind9/check.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/version.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/win32/DLLMain.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/include/isc/include/isc/version.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/strerror.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/platform.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/version.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/DLLMain.c  
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/ntgroups.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/sec/dst/key.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/version.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/include/bind9/getaddresses.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/win32/DLLMain.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/syslog.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/win32/DLLMain.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/strerror.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/bindevt.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/include/isc/include/isc/log.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/win32/DLLMain.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/include/lwres/version.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/win32/version.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/include/isc/include/isc/log.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/DLLMain.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/include/isccc/version.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/ntpaths.c

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```
*/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getnetgrent_r.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getservent_r.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getnetent_r.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getprotoent_r.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/gethostent_r.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getpwent_r.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getgrent_r.c
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/resolv/res\_comp.c

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\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/txt\_16.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/null\_10.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/socket.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/soa\_6.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/timer.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/region.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/event.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/in\_1/a\_1.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/netaddr.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/lex.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/proforma.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/buffer.h

\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/buffer.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/pthreads/include/isc/mutex.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/timer.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c

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\* SHA-1 in C

\* By Steve Reid <steve@edmweb.com>

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\*

\* Test Vectors (from FIPS PUB 180-1)

\* "abc"

\* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D

\* "abcdbcdecdefdefgefghfghighijhijkijklklmklmnlmnomnopnopq"

\* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1

\* A million repetitions of "a"

\* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F

\*/

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\*  
\* @(#)cdefs.h 8.7 (Berkeley) 1/21/94  
\*/

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/lcl\_pw.c

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.\" $Id: lwres_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

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.\"

.\"

The following six UNCOMMENTED lines are required.

.\"Os OPERATING\_SYSTEM [version/release]

.\"Dt DOCUMENT\_TITLE [section number] [volume]

.\" The following requests should be uncommented and

.\" used where appropriate. This next request is

.\" for sections 2 and 3 function return values only.

.\" This next request is for sections 1, 6, 7 & 8 only

.\" .Sh ENVIRONMENT

.\" .Sh EXAMPLES

.\" This next request is for sections 1, 6, 7 & 8 only

.\" (command return values (to shell) and

.\" fprintf/stderr type diagnostics)

.\" .Sh DIAGNOSTICS

.\" The next request is for sections 2 and 3 error

.\" and signal handling only.

.\" .Sh STANDARDS

.\ " .Sh HISTORY

.\ " .Sh BUGS

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.\ "

.\ " \$Id: lwres\_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\ "

Found

in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_inetntop.3

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dlv\_65323.h

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.\n \$Id: heap.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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.\n

.\nOs

OPERATING\_SYSTEM [version/release]

.\n The following requests should be uncommented and

.\n used where appropriate. This next request is

.\n for sections 2 and 3 function return values only.

.\n This next request is for sections 1, 6, 7 & 8 only

.\n .Sh ENVIRONMENT

.\n .Sh EXAMPLES

.\n This next request is for sections 1, 6, 7 & 8 only

.\n (command return values (to shell) and

.\n fprintf/stderr type diagnostics)

.\n The next request is for sections 2 and 3 error

.\n and signal handling only.

.\n .Sh STANDARDS

.\n .Sh HISTORY

.\n .Sh BUGS

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/isc/heap.mdoc

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\* eventlib definitions specific to binos

\*

\* January 2007, Vikram Visweswaraiah

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/win32/version.c

\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/condition.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/pthreads/include/isc/condition.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/null\_10.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/mutex.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mx\_15.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/md\_3.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/version.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/ns\_2.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/in\_1/a\_1.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/eventclass.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/ns\_2.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/md\_3.h

\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/thread.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/version.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/thread.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/pthreads/condition.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mf\_4.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/cname\_5.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/cname\_5.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mf\_4.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/threads/include/isc/thread.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/proforma.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/version.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/win32/version.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/version.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/condition.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/rdataclass.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mg\_8.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/error.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mb\_7.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/rdatatype.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mr\_9.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/time.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mb\_7.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/boolean.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mr\_9.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/mg\_8.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/version.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/soa\_6.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/ptr\_12.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/iscfg/version.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/txt\_16.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/opt\_41.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/time.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/ptr\_12.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/minfo\_14.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/event.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/util.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/minfo\_14.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/error.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/win32/version.c  
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.\" \$Id: lwres\_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isccc/result.c

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-->

<!-- \$Id: lwres\_getrrsetbyname.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Oct 18, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getrrsetbyname</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getrrsetbyname</refname>

<refname>lwres\_freerrset</refname>

<refpurpose>retrieve DNS records</refpurpose>

</refnamediv>

<refsynopsisdiv>

```

<funcsynopsis>
<funcsynopsisinfo>#include <lwres/netdb.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
int
<function>lwres_getrrsetbyname</function></funcdef>
<paramdef>const char *hostname</paramdef>
<paramdef>unsigned int rdclass</paramdef>
<paramdef>unsigned int rdtype</paramdef>
<paramdef>unsigned int flags</paramdef>
<paramdef>struct rrsetinfo **res</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_freerrset</function></funcdef>
<paramdef>struct rrsetinfo *rrset</paramdef>
</funcprototype>
</funcsynopsis>

```

<para>

The following structures  
are used:

<programlisting>

```

struct rdatainfo {
    unsigned int    rdi_length; /* length of data */
    unsigned char   *rdi_data; /* record data */
};

struct rrsetinfo {
    unsigned int    rri_flags; /* RRSET_VALIDATED... */
    unsigned int    rri_rdclass; /* class number */
    unsigned int    rri_rdtype; /* RR type number */
    unsigned int    rri_ttl; /* time to live */
    unsigned int    rri_nrdatas; /* size of rdatas array */
    unsigned int    rri_nsigs; /* size of sigs array */
    char            *rri_name; /* canonical name */
    struct rdatainfo *rri_rdatas; /* individual records */
    struct rdatainfo *rri_sigs; /* individual signatures */
};

```

</programlisting>

</para>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

<function>lwres\_getrrsetbyname()</function>

gets a set  
of resource records associated with a  
<parameter>hostname</parameter>,  
  
<parameter>class</parameter>,

and  
<parameter>type</parameter>.

<parameter>hostname</parameter>  
is  
a pointer to a null-terminated string. The  
<parameter>flags</parameter>  
field is currently unused and must be zero.

</para>

<para>

After a successful call to  
<function>lwres\_getrrsetbyname()</function>,

<parameter>\*res</parameter>  
is a pointer to an  
<type>rrsetinfo</type>  
structure, containing a list of one or more  
<type>rdatainfo</type>  
structures containing resource records and potentially another list of  
<type>rdatainfo</type>  
structures containing SIG resource records  
associated with those records.

The members

<constant>rri\_rdclass</constant>

and

<constant>rri\_rdtype</constant>

are copied from the parameters.

<constant>rri\_ttl</constant>

and

<constant>rri\_name</constant>

are properties of the obtained rrset.

The resource records contained in

<constant>rri\_rdatas</constant>

and

<constant>rri\_sigs</constant>

are

in uncompressed DNS wire format.

Properties of the rdataset are represented in the

<constant>rri\_flags</constant>

bitfield. If the RRSET\_VALIDATED bit is set, the data has been DNSSEC  
validated and the signatures verified.

</para>

<para>  
All of the information returned by  
<function>lwres\_getrrsetbyname()</function>  
is dynamically allocated: the  
<constant>rrsetinfo</constant>  
and  
<constant>rdatainfo</constant>  
structures,  
and the canonical host name strings pointed to by the  
<constant>rrsetinfo</constant>structure.

Memory allocated for the dynamically allocated structures created by  
a successful call to  
<function>lwres\_getrrsetbyname()</function>  
is released by  
<function>lwres\_freerrset()</function>.

<parameter>rrset</parameter>  
is a pointer to a  
<type>struct rrset</type>  
created by a call to  
<function>lwres\_getrrsetbyname()</function>.

</para>

<para>

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

<function>lwres\_getrrsetbyname()</function>

returns zero on success,

and one of the following error

codes if an error occurred:

<variablelist>

<varlistentry><term><constant>ERRSET\_NONAME</constant></term>

<listitem><para>

the name does not exist

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NODATA</constant></term>

<listitem><para>

the name exists, but does not have data of the desired type

</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_NOMEMORY</constant></term>

<listitem><para>

memory could not be allocated  
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_INVALID</constant></term>  
<listitem><para>  
a parameter is invalid  
</para></listitem></varlistentry>

<varlistentry><term><constant>ERRSET\_FAIL</constant></term>  
<listitem><para>  
other failure  
</para></listitem></varlistentry>

<varlistentry><term><constant></constant></term>  
<listitem><para>  
</para></listitem></varlistentry>

</variablelist>

</para>  
</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>  
<citerefentry>  
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>  
</citerefentry>.  
</para>

</refsect1>  
</refentry>

Found

in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.docbook  
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.\" \$Id: lwres\_getipnode.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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.\" \$Id: lwres\_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found

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\*/

/\* \$Id: platform.h.in,v 1.1 2004/11/03 01:39:06 abstine Exp \$ \*/

#ifndef LWRES\_PLATFORM\_H

#define

LWRES\_PLATFORM\_H 1

/\*\*\*\*\*

\*\*\*\* Platform-dependent defines.

\*\*\*\*\*/

/\*\*

\*\*\* Network.

\*\*\*

/\*

\* Define if this system needs the <netinet/in6.h> header file for IPv6.

\*/

@LWRES\_PLATFORM\_NEEDNETINETIN6H@

/\*

\* Define if this system needs the <netinet6/in6.h> header file for IPv6.

\*/

@LWRES\_PLATFORM\_NEEDNETINET6IN6H@

/\*

```

* If sockaddrs on this system have an sa_len field, LWRES_PLATFORM_HAVESALEN
* will be defined.
*/
@LWRES_PLATFORM_HAVESALEN@

/*
* If this system has the IPv6 structure definitions, LWRES_PLATFORM_HAVEIPV6
* will be defined.
*/
@LWRES_PLATFORM_HAVEIPV6@

/*
* If this system is missing in6addr_any, LWRES_PLATFORM_NEEDIN6ADDRANY will
* be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRANY@

/*
* If this system is missing in6addr_loopback,
* LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK will be defined.
*/
@LWRES_PLATFORM_NEEDIN6ADDRLOOPBACK@

/*
* If this system has in_addr6, rather than in6_addr,
* LWRES_PLATFORM_HAVEINADDR6 will be defined.
*/
@LWRES_PLATFORM_HAVEINADDR6@

/*
* Defined if unistd.h does not cause fd_set to be delared.
*/
@LWRES_PLATFORM_NEEDSYSSELECTH@

/*
* Used to control how extern data is linked; needed for Win32 platforms.
*/
@LWRES_PLATFORM_USEDECLSPEC@

/*
* Defined this system needs vsnprintf() and snprintf().
*/
@LWRES_PLATFORM_NEEDVSNPRINTF@

/*
* If this system need a modern sprintf() that returns (int) not (char*).
*/
@LWRES_PLATFORM_NEEDSPRINTF@

```

```
#ifndef LWRES_PLATFORM_USEDECLSPEC
#define LIBLWRES_EXTERNAL_DATA
#else
#ifdef LIBLWRES_EXPORTS
#define LIBLWRES_EXTERNAL_DATA __declspec(dllexport)
#else
#define LIBLWRES_EXTERNAL_DATA __declspec(dllimport)
#endif
#endif

#endif /* LWRES_PLATFORM_H */
```

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/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/irp\_sv.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/irp\_ho.c

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```

```
AC_REVISION($Revision: 1.1 $)
```

```
AC_INIT(resolv/herror.c)
```

```
AC_PREREQ(2.13)
```

```
AC_CONFIG_HEADER(config.h)
```

```
AC_CANONICAL_HOST
```

```
AC_PROG_MAKE_SET
```

```
AC_PROG_RANLIB
```

```
AC_PROG_INSTALL
```

```
AC_SUBST(STD_CINCLUDES)
```

```
AC_SUBST(STD_CDEFINES)
```

```
AC_SUBST(STD_CWARNINGS)
```

```
AC_SUBST(CCOPT)
```

```
AC_PATH_PROG(AR,
```

```
ar)
```

```
ARFLAGS="cruv"
```

```
AC_SUBST(AR)
```

```
AC_SUBST(ARFLAGS)
```

```
# The POSIX ln(1) program. Non-POSIX systems may substitute
```

```
# "copy" or something.
```

```
LN=ln
```

```
AC_SUBST(LN)
```

```
case "$AR" in
```

```
  "")
```

```
    AC_MSG_ERROR([
```

```
ar program not found. Please fix your PATH to include the directory in
```

```
which ar resides, or set AR in the environment with the full path to ar.
```



```

D)

;;
esac

#
# Etags.
#
AC_PATH_PROGS(ETAGS, etags emacs-etags)

#
# Some systems, e.g. RH7, have the Exuberant Ctags etags instead of
# GNU emacs etags, and it requires the -L flag.
#
if test "X$ETAGS" != "X"; then
  AC_MSG_CHECKING(for Exuberant Ctags etags)
  if $ETAGS --version 2>&1 | grep 'Exuberant Ctags' >/dev/null 2>&1; then
    AC_MSG_RESULT(yes)
    ETAGS="$ETAGS -L"
  else
    AC_MSG_RESULT(no)
  fi
fi
AC_SUBST(ETAGS)

#
# Perl is optional; it is used only by some of the system test scripts.
#
AC_PATH_PROGS(PERL,
  perl5 perl)
AC_SUBST(PERL)

#
# isc/list.h and others clash with the rest of BIND 9
#
case "$includedir" in
  "${prefix}/include")
    includedir='${prefix}/bind/include'
    ;;
esac
case "$libdir" in
  "${prefix}/lib")
    libdir='${prefix}/bind/lib'
    ;;
esac

#
# Make sure INSTALL uses an absolute path, else it will be wrong in all

```

```

# Makefiles, since they use make/rules.in and INSTALL will be adjusted by
# configure based on the location of the file where it is substituted.
# Since in BIND9 INSTALL is only substituted into make/rules.in, an immediate
# subdirectory of install-sh, This relative path will be wrong for all
# directories more than one level down from install-sh.
#
case "$INSTALL" in
/*)
;;
*)
#
# Not all systems have dirname.
#
changequote({, })
ac_dir="`echo $INSTALL | sed 's%/[^\/*]%%'"
changequote([, ])

ac_prog="`echo
$INSTALL | sed 's%.*%%'"
test "$ac_dir" = "$ac_prog" && ac_dir=.
test -d "$ac_dir" && ac_dir="`cd \"$ac_dir\" && pwd`"
INSTALL="$ac_dir/$ac_prog"
;;
esac

#
# On these hosts, we really want to use cc, not gcc, even if it is
# found. The gcc that these systems have will not correctly handle
# pthreads.
#
# However, if the user sets $CC to be something, let that override
# our change.
#
if test "X$CC" = "X" ; then
case "$host" in
*-dec-osf*)
CC="cc"
;;
*-solaris*)
# Use Sun's cc if it is available, but watch
# out for /usr/ucb/cc; it will never be the right
# compiler to use.
#
# If setting CC here fails, the AC_PROG_CC done
# below might still find gcc.
IFS="{IFS= }"; ac_save_ifs="$IFS"; IFS=":"
for ac_dir in $PATH; do
test -z "$ac_dir" && ac_dir=.

```

```

case
"$ac_dir" in
/usr/ucb)
# exclude
;;
*)
if test -f "$ac_dir/cc"; then
CC="$ac_dir/cc"
break
fi
;;
esac
done
IFS="$ac_save_ifs"
;;
*-hp-hpux*)
CC="cc"
;;
mips-sgi-irix*)
CC="cc"
;;
esac
fi

```

AC\_PROG\_CC

AC\_HEADER\_STDC

AC\_CHECK\_HEADERS(fcntl.h db.h paths.h sys/time.h unistd.h sys/sockio.h sys/select.h sys/timers.h)

AC\_C\_CONST

AC\_C\_INLINE

AC\_TYPE\_SIZE\_T

AC\_HEADER\_TIME

#

# check if we need to #include sys/select.h explicitly

#

case \$ac\_cv\_header\_unistd\_h in

yes)

AC\_MSG\_CHECKING(if unistd.h defines fd\_set)

AC\_TRY\_COMPILE([

#include <unistd.h>],

[fd\_set read\_set; return (0);],

[AC\_MSG\_RESULT(yes)

ISC\_PLATFORM\_NEEDSYSSELECTH="#undef ISC\_PLATFORM\_NEEDSYSSELECTH"

```

],
[AC_MSG_RESULT(no)
case ac_cv_header_sys_select_h in
yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
    ;;
no)
    AC_MSG_ERROR([need either working unistd.h or sys/select.h])
    ;;
esac
])
;;
no)
case ac_cv_header_sys_select_h
in
yes)
    ISC_PLATFORM_NEEDSYSSELECTH="#define ISC_PLATFORM_NEEDSYSSELECTH 1"
    ;;
no)
    AC_MSG_ERROR([need either unistd.h or sys/select.h])
    ;;
esac
;;
esac
AC_SUBST(ISC_PLATFORM_NEEDSYSSELECTH)

#
# Find the machine's endian flavor.
#
AC_C_BIGENDIAN

AC_ARG_WITH(irs-gr,[ --with-irs-gr Build ....],
want_irs_gr="$withval", want_irs_gr="no")
case "$want_irs_gr" in
yes) WANT_IRS_GR="#define WANT_IRS_GR 1"
    WANT_IRS_GR_OBJS="\${WANT_IRS_GR_OBJS}"
    ;;
*) WANT_IRS_GR="#undef WANT_IRS_GR" WANT_IRS_GR_OBJS="";;
esac
AC_SUBST(WANT_IRS_GR)
AC_SUBST(WANT_IRS_GR_OBJS)

AC_ARG_WITH(irs-pw,[ --with-irs-pw Build ....],
want_irs_pw="$withval", want_irs_pw="no")
case "$want_irs_pw" in
yes) WANT_IRS_PW="#define WANT_IRS_PW 1"
    WANT_IRS_PW_OBJS="\${WANT_IRS_PW_OBJS}";;
*) WANT_IRS_PW="#undef WANT_IRS_PW" WANT_IRS_PW_OBJS="";;

```

```

esac
AC_SUBST(WANT_IRS_PW)
AC_SUBST(WANT_IRS_PW_OBJS)

AC_ARG_WITH(irs-nis,[ --with-irs-nis Build ...],
want_irs_nis="$withval",
want_irs_nis="no")
case "$want_irs_nis" in
yes)
WANT_IRS_NIS="#define WANT_IRS_NIS 1"
WANT_IRS_NIS_OBJS="\${WANT_IRS_NIS_OBJS}"
case "$want_irs_gr" in
yes)
WANT_IRS_NISGR_OBJS="\${WANT_IRS_NISGR_OBJS}";;
*)
WANT_IRS_NISGR_OBJS="";;
esac
case "$want_irs_pw" in
yes)
WANT_IRS_NISPW_OBJS="\${WANT_IRS_NISPW_OBJS}";;
*)
WANT_IRS_NISPW_OBJS="";;
esac
;;
*)
WANT_IRS_NIS="#undef WANT_IRS_NIS"
WANT_IRS_NIS_OBJS=""
WANT_IRS_NISGR_OBJS=""
WANT_IRS_NISPW_OBJS="";;
esac
AC_SUBST(WANT_IRS_NIS)
AC_SUBST(WANT_IRS_NIS_OBJS)
AC_SUBST(WANT_IRS_NISGR_OBJS)
AC_SUBST(WANT_IRS_NISPW_OBJS)
AC_TRY_RUN([
#ifdef HAVE_DB_H
int have_db_h = 1;
#else
int have_db_h = 0;
#endif
main() { return(!have_db_h); }
],
WANT_IRS_DBPW_OBJS="\${WANT_IRS_DBPW_OBJS}"
,
WANT_IRS_DBPW_OBJS=""
,
WANT_IRS_DBPW_OBJS=""
)

```

```

AC_SUBST(WANT_IRS_DBPW_OBJS)

#
# was --with-randomdev specified?
#
AC_MSG_CHECKING(for random device)
AC_ARG_WITH(randomdev,
[ --with-randomdev=PATH Specify path for random device],
use_randomdev="$withval",
use_randomdev="unspec")

case "$use_randomdev" in
unspec)
case "$host" in
*-openbsd*)
devrandom=/dev/srandom
;;
*)
devrandom=/dev/random
;;
esac
AC_MSG_RESULT($devrandom)
AC_CHECK_FILE($devrandom,
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV,
"$devrandom"),)
;;
yes)
AC_MSG_ERROR([--with-randomdev must specify a path])
;;
*)
AC_DEFINE_UNQUOTED(PATH_RANDOMDEV, "$use_randomdev")
AC_MSG_RESULT(using "$use_randomdev")
;;
esac

#
# Begin pthreads checking.
#
# First, decide whether to use multithreading or not.
#
AC_MSG_CHECKING(whether to look for thread support)
AC_ARG_ENABLE(threads,
[ --disable-threads disable multithreading])
case "$enable_threads" in
yes|")
AC_MSG_RESULT(yes)
use_threads=true
;;

```

```

no)
AC_MSG_RESULT(no)
use_threads=false
;;
*)
AC_MSG_ERROR([--enable-threads takes yes or no])
;;
esac

if $use_threads
then
#
# Search for / configure pthreads in a system-dependent fashion.
#
case
"$host" in
*-netbsd*)
# NetBSD has multiple pthreads implementations. The
# recommended one to use is "unproven-pthreads". The
# older "mit-pthreads" may also work on some NetBSD
# versions. The PTL2 thread library does not
# currently work with bind9, but can be chosen with
# the --with-ptl2 option for those who wish to
# experiment with it.
CC="gcc"
AC_MSG_CHECKING(which NetBSD thread library to use)

AC_ARG_WITH(ptl2,
[ --with-ptl2 on NetBSD, use the ptl2 thread library (experimental)],
use_ptl2="$withval", use_ptl2="no")

: ${LOCALBASE:=/usr/pkg}

if test "X$use_ptl2" = "Xyes"
then
AC_MSG_RESULT(PTL2)
AC_MSG_WARN(
[linking with PTL2 is highly experimental and not expected to work])
CC=ptlgcc
else
if test ! -d $LOCALBASE/pthreads
then
AC_MSG_RESULT(none)
use_threads=false
fi

if $use_threads
then

```

```

AC_MSG_RESULT(mit-pthreads/unproven-pthreads)
pkg="$LOCALBASE/pthreads"
lib1="-L$pkg/lib -Wl,-R$pkg/lib"
lib2="-lpthread
-lm -lgcc -lpthread"
LIBS="$lib1 $lib2 $LIBS"
CPPFLAGS="$CPPFLAGS -I$pkg/include"
STD_CINCLUDES="$STD_CINCLUDES -I$pkg/include"
fi
fi
;;
*)
AC_CHECK_LIB(pthread, pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create,,
AC_CHECK_LIB(pthread, __pthread_create_system,,
AC_CHECK_LIB(c_r, pthread_create,,
AC_CHECK_LIB(c, pthread_create,,
use_threads=false))))
;;
esac
fi

if $use_threads
then
#
# We'd like to use sigwait() too
#
AC_CHECK_LIB(c, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, sigwait,
AC_DEFINE(HAVE_SIGWAIT),
AC_CHECK_LIB(pthread, _Psigwait,
AC_DEFINE(HAVE_SIGWAIT),))
)

AC_CHECK_FUNC(pthread_attr_getstacksize,
AC_DEFINE(HAVE_PTHREAD_ATTR_GETSTACKSIZE),)

#
# Additional OS-specific issues related to pthreads and sigwait.
#
case "$host" in
#
# One more place to look for sigwait.
#
*-freebsd*)
AC_CHECK_LIB(c_r, sigwait, AC_DEFINE(HAVE_SIGWAIT),)
;;

```



```

#
#
BSDI 3.0 through 4.0.1 needs pthread_init() to be
# called before certain pthreads calls. This is deprecated
# in BSD/OS 4.1.
#
*bsd3.*|*bsd4.0*)
    AC_DEFINE(NEED_PTHREAD_INIT)
    ;;
#
# LinuxThreads requires some changes to the way we
# deal with signals.
#
*linux*)
    AC_DEFINE(HAVE_LINUXTHREADS)
    ;;
#
# Ensure the right sigwait() semantics on Solaris and make
# sure we call pthread_setconcurrency.
#
*solaris*)
    AC_DEFINE(_POSIX_PTHREAD_SEMANTICS)
    AC_CHECK_FUNC(pthread_setconcurrency,
        AC_DEFINE(CALL_PTHREAD_SETCONCURRENCY))
    AC_DEFINE(POSIX_GETPWUID_R)
    AC_DEFINE(POSIX_GETPWNAM_R)
    AC_DEFINE(POSIX_GETGRGID_R)
    AC_DEFINE(POSIX_GETGRNAM_R)
    ;;
*hpux11*)
    AC_DEFINE(_PTHREADS_DRAFT4)
    ;;
#
# UnixWare does things its own way.
#
*UnixWare*)
    AC_DEFINE(HAVE_UNIXWARE_SIGWAIT)
    ;;
esac

#
# Look for sysconf to allow detection of the number of processors.
#
AC_CHECK_FUNC(sysconf,
AC_DEFINE(HAVE_SYSCONF,))

if test "X$GCC" = "Xyes"; then
case "$host" in

```

```

*-freebsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-openbsd*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
LIBS="$LIBS -lthread"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
esac
else
case $host in
*-dec-osf*)
CC="$CC -pthread"
CCOPT="$CCOPT -pthread"
;;
*-solaris*)
CC="$CC -mt"
CCOPT="$CCOPT -mt"
;;
*-ibm-aix*)
STD_CDEFINES="$STD_CDEFINES -D_THREAD_SAFE"
;;
*-UnixWare*)
CC="$CC -Kthread"
CCOPT="$CCOPT -Kthread"
;;
esac
fi
ALWAYS_DEFINES="-D_REENTRANT"
DO_PTHREADS="#define DO_PTHREADS 1"
WANT_IRS_THREADSGR_OBJS="\${WANT_IRS_THREADSGR_OBJS}"
WANT_IRS_THREADSPW_OBJS="\${WANT_IRS_THREADSPW_OBJS}"
WANT_IRS_THREADS_OBJS="\${WANT_IRS_THREADS_OBJS}"
thread_dir=pthreads
else
ALWAYS_DEFINES=""
DO_PTHREADS="#undef DO_PTHREADS"
WANT_IRS_THREADSGR_OBJS=""
WANT_IRS_THREADSPW_OBJS=""
WANT_IRS_THREADS_OBJS=""
thread_dir=nothreads

```

fi

```
AC_CHECK_FUNC(strlcat,  
AC_DEFINE(HAVE_STRLCAT))
```

```
AC_SUBST(ALWAYS_DEFINES)  
AC_SUBST(DO_PTHREADS)  
AC_SUBST(WANT_IRS_THREADSGR_OBJS)  
AC_SUBST(WANT_IRS_THREADSPW_OBJS)  
AC_SUBST(WANT_IRS_THREADS_OBJS)
```

```
AC_CHECK_FUNC(if_nametoindex,  
[USE_IFNAMELINKID="#define USE_IFNAMELINKID 1"],  
[USE_IFNAMELINKID="#undef USE_IFNAMELINKID"])  
AC_SUBST(USE_IFNAMELINKID)
```

```
ISC_THREAD_DIR=$thread_dir  
AC_SUBST(ISC_THREAD_DIR)
```

```
AC_CHECK_FUNC(daemon,  
[DAEMON_OBJS="" NEED_DAEMON="#undef NEED_DAEMON"]  
,  
[DAEMON_OBJS="\${DAEMON_OBJS}" NEED_DAEMON="#define NEED_DAEMON 1"]  
)  
AC_SUBST(DAEMON_OBJS)  
AC_SUBST(NEED_DAEMON)
```

```
AC_CHECK_FUNC(strsep,  
[STRSEP_OBJS="" NEED_STRSEP="#undef NEED_STRSEP"]  
,  
[STRSEP_OBJS="\${STRSEP_OBJS}" NEED_STRSEP="#define NEED_STRSEP 1"]  
)  
AC_SUBST(STRSEP_OBJS)  
AC_SUBST(NEED_STRSEP)
```

```
AC_CHECK_FUNC(strerror, [NEED_STRERROR="#undef NEED_STRERROR"],  
[NEED_STRERROR="#define NEED_STRERROR 1"])  
AC_SUBST(NEED_STRERROR)
```

```
#
```

```
#
```

```
flockfile is usually provided by pthreads, but we may want to use it  
# even if compiled with --disable-threads.
```

```
#
```

```
AC_CHECK_FUNC(flockfile, AC_DEFINE(HAVE_FLOCKFILE),)
```

```
#
```

```
# Indicate what the final decision was regarding threads.
```

```

#
AC_MSG_CHECKING(whether to build with threads)
if $use_threads; then
  AC_MSG_RESULT(yes)
else
  AC_MSG_RESULT(no)
fi

#
# End of pthreads stuff.
#

#
# Additional compiler settings.
#
MKDEPCC="$CC"
MKDEPCFLAGS="-M"
IRIX_DNSSEC_WARNINGS_HACK=""

if test "X$GCC" = "Xyes"; then
  STD_CWARNINGS="$STD_CWARNINGS -W -Wall -Wmissing-prototypes -Wcast-qual -Wwrite-strings"
else
  case $host in
    *-dec-osf*)
      CC="$CC -std"
      CCOPT="$CCOPT -std"
      MKDEPCC="$CC"
      ;;
    *-hp-hpux*)
      CC="$CC -Ae -z"
      # The version of the C compiler that constantly warns about
      # 'const' as well as alignment issues is unfortunately not
      # able to be discerned via the version of the operating
      # system, nor does cc have a version flag.
      case
        "$CC +W 123 2>&1" in
          *Unknown?option*)
            STD_CWARNINGS="+w1"
            ;;
          *)
            # Turn off the pointlessly noisy warnings.
            STD_CWARNINGS="+w1 +W 474,530"
            ;;
        esac
      CCOPT="$CCOPT -Ae -z"
      LIBS="-Wl,+vnocompatwarnings $LIBS"
      MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>&1 | awk ""'"BEGIN { colon=0; rec="" }; { for (i = 0 ; i < NF; i++)
{ if (colon && a[i]) continue; if ($i == "\\") continue; if (!colon) { rec = $i continue; } if ($i == ":") { rec = rec " :"'

```

```

colon = 1 continue; } if (length(rec $i) > 76) { print rec " \\\"; rec = "\t" $i; a[$i] = 1; } else { rec = rec " " $i a[$i] = 1;
} } } END {print rec}"""" >>$TMP'
MKDEPPROG='cc -Ae -E -Wp,-M >/dev/null 2>>$TMP'
;;
*-sgi-irix*)
STD_CWARNINGS="-fullwarn -woff 1209"
#
# Silence more than 250 instances of
# "prototyped function redeclared without prototype"
# and 11 instances of
# "variable ... was set but never used"
# from lib/dns/sec/openssl.
#
IRIX_DNSSEC_WARNINGS_HACK="-woff 1692,1552"
;;
*-solaris*)
MKDEPCFLAGS="-xM"
;;
*-UnixWare*)
CC="$CC
-w"
;;
esac
fi

#
# _GNU_SOURCE is needed to access the fd_bits field of struct fd_set, which
# is supposed to be opaque.
#
case $host in
*linux*)
STD_CDEFINES="$STD_CDEFINES -D_GNU_SOURCE"
;;
esac

AC_SUBST(MKDEPCC)
AC_SUBST(MKDEPCFLAGS)
AC_SUBST(MKDEPPROG)
AC_SUBST(IRIX_DNSSEC_WARNINGS_HACK)

#
# NLS
#
AC_CHECK_FUNC(catgets, AC_DEFINE(HAVE_CATGETS),)

#
# -lXnet buys us one big porting headache... standards, gotta love 'em.
#

```

```

# AC_CHECK_LIB(xnet, socket, ,
# AC_CHECK_LIB(socket, socket)
# AC_CHECK_LIB(nsl, inet_ntoa)
# )
#
# Use this for now, instead:
#
case "$host" in
mips-sgi-irix*)
;;
*)
AC_CHECK_LIB(d4r, gethostbyname_r)
AC_CHECK_LIB(socket, socket)
AC_CHECK_LIB(nsl, inet_ntoa)
;;
esac

#
# Purify support
#
AC_MSG_CHECKING(whether to use purify)
AC_ARG_WITH(purify,
[ --with-purify[=PATH] use Rational purify],
use_purify="$withval", use_purify="no")

case "$use_purify" in
no)
;;
yes)
AC_PATH_PROG(purify_path,
purify, purify)
;;
*)
purify_path="$use_purify"
;;
esac

case "$use_purify" in
no)
AC_MSG_RESULT(no)
PURIFY=""
;;
*)
if test -f $purify_path || test $purify_path = purify; then
AC_MSG_RESULT($purify_path)
PURIFYFLAGS="`echo $PURIFYOPTIONS`"
PURIFY="$purify_path $PURIFYFLAGS"
else

```

```
AC_MSG_ERROR([$purify_path not found.
```

Please choose the proper path with the following command:

```
    configure --with-purify=PATH
)
fi
;;
esac
```

```
AC_SUBST(PURIFY)
```

```
#
# GNU libtool support
#
AC_ARG_WITH(libtool,
  [ --with-libtool use GNU libtool (following indented options supported)],
  use_libtool="$withval", use_libtool="no")
```

```
case $use_libtool in
yes)
  AM_PROG_LIBTOOL
  O=lo
  A=la
  LIBTOOL_MKDEP_SED='s;\.o;\.lo;'
  LIBTOOL_MODE_COMPILE='--mode=compile'
  LIBTOOL_MODE_INSTALL='--mode=install'
  LIBTOOL_MODE_LINK='--mode=link'
  ;;
*)
  O=o
  A=a
  LIBTOOL=
  AC_SUBST(LIBTOOL)
  LIBTOOL_MKDEP_SED=
  LIBTOOL_MODE_COMPILE=
  LIBTOOL_MODE_INSTALL=
  LIBTOOL_MODE_LINK=
  ;;
esac
```

```
#
#
File name extension for static archive files, for those few places
# where they are treated differently from dynamic ones.
#
SA=a
```

```

AC_SUBST(O)
AC_SUBST(A)
AC_SUBST(SA)
AC_SUBST(LIBTOOL_MKDEP_SED)
AC_SUBST(LIBTOOL_MODE_COMPILE)
AC_SUBST(LIBTOOL_MODE_INSTALL)
AC_SUBST(LIBTOOL_MODE_LINK)

#
# Here begins a very long section to determine the system's networking
# capabilities. The order of the tests is significant.
#

#
# IPv6
#
AC_ARG_ENABLE(ipv6,
[ --enable-ipv6 use IPv6 [default=autodetect]])

case "$enable_ipv6" in
yes|"autodetect")
AC_DEFINE(WANT_IPV6)
;;
no)
;;
esac

#
# We do the IPv6 compilation checking after libtool so that we can put
# the right suffix on the files.
#
AC_MSG_CHECKING(for IPv6 structures)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>],
[struct sockaddr_in6 sin6; return (0);],
[AC_MSG_RESULT(yes)
found_ipv6=yes],
[AC_MSG_RESULT(no)
found_ipv6=no])

#
# See whether
# IPv6 support is provided via a Kame add-on.
# This is done before other IPv6 linking tests to LIBS is properly set.
#
AC_MSG_CHECKING(for Kame IPv6 support)

```



```
AC_ARG_WITH(kame,  
[ --with-kame[=PATH] use Kame IPv6 [default path /usr/local/v6]],  
use_kame="$withval", use_kame="no")
```

```
case "$use_kame" in  
no)  
;;  
yes)  
kame_path=/usr/local/v6  
;;  
*)  
kame_path="$use_kame"  
;;  
esac
```

```
case "$use_kame" in  
no)  
AC_MSG_RESULT(no)  
;;  
*)  
if test -f $kame_path/lib/libinet6.a; then  
AC_MSG_RESULT($kame_path/lib/libinet6.a)  
LIBS="-L$kame_path/lib -linet6 $LIBS"  
else  
AC_MSG_ERROR([$kame_path/lib/libinet6.a not found.
```

Please choose the proper path with the following command:

```
configure --with-kame=PATH  
])  
fi  
;;  
esac
```

```
#  
# Whether netinet6/in6.h is needed has to be defined in isc/platform.h.  
# Including it on Kame-using platforms is very bad, though, because  
# Kame uses #error against direct inclusion. So include it on only  
# the platform that is otherwise broken without  
it -- BSD/OS 4.0 through 4.1.  
# This is done before the in6_pktinfo check because that's what  
# netinet6/in6.h is needed for.  
#  
changequote({, })  
case "$host" in  
*-bsdi4.[01]*)  
ISC_PLATFORM_NEEDNETINET6IN6H="#define ISC_PLATFORM_NEEDNETINET6IN6H 1"  
isc_netinet6in6_hack="#include <netinet6/in6.h>"
```

```

;;
*)
ISC_PLATFORM_NEEDNETINET6IN6H="#undef ISC_PLATFORM_NEEDNETINET6IN6H"
isc_netinet6in6_hack=""
;;
esac
changequote([, ])

#
# This is similar to the netinet6/in6.h issue.
#
case "$host" in
*-UnixWare*)
ISC_PLATFORM_NEEDNETINETIN6H="#define ISC_PLATFORM_NEEDNETINETIN6H 1"
ISC_PLATFORM_FIXIN6ISADDR="#define ISC_PLATFORM_FIXIN6ISADDR 1"
isc_netinetin6_hack="#include <netinet/in6.h>"
;;
*)
ISC_PLATFORM_NEEDNETINETIN6H="#undef ISC_PLATFORM_NEEDNETINETIN6H"
ISC_PLATFORM_FIXIN6ISADDR="#undef ISC_PLATFORM_FIXIN6ISADDR"
isc_netinetin6_hack=""
;;
esac

#
# Now delve deeper into the suitability of the IPv6 support.
#
case "$found_ipv6" in
yes)
HAS_INET6_STRUCTS="#define
HAS_INET6_STRUCTS 1"

AC_MSG_CHECKING(for in6_addr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_addr in6; return (0);],
[AC_MSG_RESULT(yes)
HAS_IN_ADDR6="#undef HAS_IN_ADDR6"
isc_in_addr6_hack=""],
[AC_MSG_RESULT(no)
HAS_IN_ADDR6="#define HAS_IN_ADDR6 1"
isc_in_addr6_hack="#define in6_addr in_addr6"])

```

```

AC_MSG_CHECKING(for in6addr_any)
AC_TRY_LINK([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
$isc_in_addr6_hack
],
[struct in6_addr in6; in6 = in6addr_any; return (0);],
[AC_MSG_RESULT(yes)
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"],
[AC_MSG_RESULT(no)
NEED_IN6ADDR_ANY="#define NEED_IN6ADDR_ANY 1"])

```

```

AC_MSG_CHECKING(for sin6_scope_id in struct sockaddr_in6)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct
sockaddr_in6 xyzy; xyzy.sin6_scope_id = 0; return (0);],
[AC_MSG_RESULT(yes)
result="#define HAVE_SIN6_SCOPE_ID 1"],
[AC_MSG_RESULT(no)
result="#undef HAVE_SIN6_SCOPE_ID"])
HAVE_SIN6_SCOPE_ID="$result"

```

```

AC_MSG_CHECKING(for in6_pktinfo)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinetin6_hack
$isc_netinet6in6_hack
],
[struct in6_pktinfo xyzy; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_HAVEIN6PKTINFO="#define ISC_PLATFORM_HAVEIN6PKTINFO 1"],
[AC_MSG_RESULT(no -- disabling runtime ipv6 support)
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"])

```

```

AC_MSG_CHECKING(for sockaddr_storage)
AC_TRY_COMPILE([
#include <sys/types.h>

```

```

#include <sys/socket.h>
#include <netinet/in.h>
$isc_netinet6_hack
$isc_netinet6in6_hack
],
[struct sockaddr_storage xyzy; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SOCKADDR_STORAGE="#define HAVE_SOCKADDR_STORAGE 1"],
[AC_MSG_RESULT(no)

HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE")]
;;
no)
HAS_INET6_STRUCTS="#undef HAS_INET6_STRUCTS"
NEED_IN6ADDR_ANY="#undef NEED_IN6ADDR_ANY"
ISC_PLATFORM_HAVEIN6PKTINFO="#undef ISC_PLATFORM_HAVEIN6PKTINFO"
HAVE_SIN6_SCOPE_ID="#define HAVE_SIN6_SCOPE_ID 1"
HAVE_SOCKADDR_STORAGE="#undef HAVE_SOCKADDR_STORAGE"
ISC_IPV6_H="ipv6.h"
ISC_IPV6_O="ipv6.$O"
ISC_ISCIPV6_O="unix/ipv6.$O"
ISC_IPV6_C="ipv6.c"
;;
esac

AC_SUBST(HAS_INET6_STRUCTS)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6H)
AC_SUBST(ISC_PLATFORM_NEEDNETINET6IN6H)
AC_SUBST(HAS_IN_ADDR6)
AC_SUBST(NEED_IN6ADDR_ANY)
AC_SUBST(ISC_PLATFORM_HAVEIN6PKTINFO)
AC_SUBST(ISC_PLATFORM_FIXIN6ISADDR)
AC_SUBST(ISC_IPV6_H)
AC_SUBST(ISC_IPV6_O)
AC_SUBST(ISC_ISCIPV6_O)
AC_SUBST(ISC_IPV6_C)
AC_SUBST(HAVE_SIN6_SCOPE_ID)
AC_SUBST(HAVE_SOCKADDR_STORAGE)

#
# Check for network functions that are often missing. We do this
# after the libtool checking, so we can put the right suffix on
# the files. It also needs
# to come after checking for a Kame add-on,
# which provides some (all?) of the desired functions.
#
AC_MSG_CHECKING([for inet_ntop])
AC_TRY_LINK([

```

```

#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
    [inet_ntop(0, 0, 0, 0); return (0);],
    [AC_MSG_RESULT(yes)
    ISC_PLATFORM_NEEDNTOP="#undef ISC_PLATFORM_NEEDNTOP"],

    [AC_MSG_RESULT(no)
    ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_ntop.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_ntop.c"
    ISC_PLATFORM_NEEDNTOP="#define ISC_PLATFORM_NEEDNTOP 1"])
AC_MSG_CHECKING([for inet_pton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
    [inet_pton(0, 0, 0); return (0);],
    [AC_MSG_RESULT(yes)
    ISC_PLATFORM_NEEDPTON="#undef ISC_PLATFORM_NEEDPTON"],

    [AC_MSG_RESULT(no)
    ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_pton.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_pton.c"
    ISC_PLATFORM_NEEDPTON="#define ISC_PLATFORM_NEEDPTON
1"])
AC_MSG_CHECKING([for inet_aton])
AC_TRY_LINK([
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>],
    [struct in_addr in; inet_aton(0, &in); return (0);],
    [AC_MSG_RESULT(yes)
    ISC_PLATFORM_NEEDATON="#undef ISC_PLATFORM_NEEDATON"],

    [AC_MSG_RESULT(no)
    ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS inet_aton.$O"
    ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS inet_aton.c"
    ISC_PLATFORM_NEEDATON="#define ISC_PLATFORM_NEEDATON 1"])

AC_SUBST(ISC_PLATFORM_NEEDNTOP)
AC_SUBST(ISC_PLATFORM_NEEDPTON)
AC_SUBST(ISC_PLATFORM_NEEDATON)

#
# Look for a 4.4BSD-style sa_len member in struct sockaddr.
#
case "$host" in
*-dec-osf*)

```

```

# Turn on 4.4BSD style sa_len support.
AC_DEFINE(_SOCKADDR_LEN)
;;
esac

AC_MSG_CHECKING(for sa_len in struct sockaddr)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct sockaddr sa; sa.sa_len = 0; return (0);],
[AC_MSG_RESULT(yes)
HAVE_SA_LEN="#define HAVE_SA_LEN 1"],
[AC_MSG_RESULT(no)
HAVE_SA_LEN="#undef
HAVE_SA_LEN"])
AC_SUBST(HAVE_SA_LEN)

# HAVE_MINIMUM_IFREQ

case "$host" in
*-bsdi[2345]*) have_minimum_ifreq=yes;;
*-darwin*) have_minimum_ifreq=yes;;
*-freebsd*) have_minimum_ifreq=yes;;
*-lynxos*) have_minimum_ifreq=yes;;
*-netbsd*) have_minimum_ifreq=yes;;
*-next*) have_minimum_ifreq=yes;;
*-openbsd*) have_minimum_ifreq=yes;;
*-rhapsody*) have_minimum_ifreq=yes;;
esac

case "$have_minimum_ifreq" in
yes)
HAVE_MINIMUM_IFREQ="#define HAVE_MINIMUM_IFREQ 1";;
no)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
*)
HAVE_MINIMUM_IFREQ="#undef HAVE_MINIMUM_IFREQ";;
esac
AC_SUBST(HAVE_MINIMUM_IFREQ)

# PORT_DIR
PORT_DIR=port/unknown
SOLARIS_BITTYPES="#undef NEED_SOLARIS_BITTYPES"
BSD_COMP="#undef BSD_COMP"
USE_FIONBIO_IOCTL="#undef USE_FIONBIO_IOCTL"
case "$host" in
*aix3.2*) PORT_DIR="port/aix32";;
*aix4*) PORT_DIR="port/aix4";;

```

```

*aux3*) PORT_DIR="port/aux3";;
*-bsdi2*) PORT_DIR="port/bsdos2";;
*-bsdi*) PORT_DIR="port/bsdos";;
*-cygwin*) PORT_DIR="port/cygwin";;
*-darwin*) PORT_DIR="port/darwin";;
*-osf*) PORT_DIR="port/decunix";;
*-freebsd*) PORT_DIR="port/freebsd";;
*-hpux9*) PORT_DIR="port/hpux9";;
*-hpux10*) PORT_DIR="port/hpux10";;
*-hpux11*) PORT_DIR="port/hpux";;
*-irix*) PORT_DIR="port/irix";;
*-linux*) PORT_DIR="port/linux";;
*-lynxos*) PORT_DIR="port/lynxos";;
*-mpe*) PORT_DIR="port/mpe";;
*-netbsd*) PORT_DIR="port/netbsd";;
*-next*) PORT_DIR="port/next";;
*-openbsd*) PORT_DIR="port/openbsd";;
*-qnx*) PORT_DIR="port/qnx";;
*-rhapsody*) PORT_DIR="port/rhapsody";;
*-solaris2.[[01234]]*)
    BSD_COMP="#define
BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    USE_FIONBIO_IOCTL="#define USE_FIONBIO_IOCTL 1"
    PORT_DIR="port/solaris";;
*-solaris2.5*)
    BSD_COMP="#define BSD_COMP 1"
    SOLARIS_BITTYPES="#define NEED_SOLARIS_BITTYPES 1"
    PORT_DIR="port/solaris";;
*-solaris2*) BSD_COMP="#define BSD_COMP 1"
    PORT_DIR="port/solaris";;
*-ultrix*) PORT_DIR="port/ultrix";;
*-sco-sysv*uw2.0*) PORT_DIR="port/unixware20";;
*-sco-sysv*uw2.1.2*) PORT_DIR="port/unixware212";;
*-sco-sysv*uw7*) PORT_DIR="port/unixware7";;
esac
AC_SUBST(BSD_COMP)
AC_SUBST(SOLARIS_BITTYPES)
AC_SUBST(USE_FIONBIO_IOCTL)
AC_SUBST(PORT_DIR)
PORT_INCLUDE=${PORT_DIR}/include
AC_SUBST(PORT_INCLUDE)

#
#
    Look for a 4.4BSD or 4.3BSD struct msghdr
#

```

```

AC_MSG_CHECKING(for struct msghdr flavor)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>],
[struct msghdr msg; msg.msg_flags = 0; return (0);],
[AC_MSG_RESULT(4.4BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD44MSGHDR 1"],
[AC_MSG_RESULT(4.3BSD)
ISC_PLATFORM_MSGHDRFLAVOR="#define ISC_NET_BSD43MSGHDR 1"])
AC_SUBST(ISC_PLATFORM_MSGHDRFLAVOR)

```

```

#
# Look for in_port_t.
#
AC_MSG_CHECKING(for type in_port_t)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <netinet/in.h>],
[in_port_t port = 25; return (0);],
[AC_MSG_RESULT(yes)
ISC_PLATFORM_NEEDPORTT="#undef ISC_PLATFORM_NEEDPORTT"],
[AC_MSG_RESULT(no)
ISC_PLATFORM_NEEDPORTT="#define
ISC_PLATFORM_NEEDPORTT 1"])
AC_SUBST(ISC_PLATFORM_NEEDPORTT)

```

```

#
# Check for addrinfo
#
AC_MSG_CHECKING(for struct addrinfo)
AC_TRY_COMPILE([
#include <netdb.h>],
[struct addrinfo a; return (0);],
[AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_ADDRINFO)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int sethostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = sethostent(0); return(0);],
[AC_MSG_RESULT(yes)],
[AC_MSG_RESULT(no)])

```

```

AC_MSG_CHECKING(for int endhostent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endhostent(); return(0);],

```



```
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDHOSTENTINT="#define ISC_LWRES_ENDHOSTENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDHOSTENTINT="#undef ISC_LWRES_ENDHOSTENTINT"])
AC_SUBST(ISC_LWRES_ENDHOSTENTINT)
```

```
AC_MSG_CHECKING(for int setnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = setnetent(0); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_SETNETENTINT="#define ISC_LWRES_SETNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_SETNETENTINT="#undef ISC_LWRES_SETNETENTINT"])
AC_SUBST(ISC_LWRES_SETNETENTINT)
```

```
AC_MSG_CHECKING(for
int endnetent)
AC_TRY_COMPILE([
#include <netdb.h>],
[int i = endnetent(); return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_ENDNETENTINT="#define ISC_LWRES_ENDNETENTINT 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_ENDNETENTINT="#undef ISC_LWRES_ENDNETENTINT"])
AC_SUBST(ISC_LWRES_ENDNETENTINT)
```

```
AC_MSG_CHECKING(for gethostbyaddr(const void *, size_t, ...))
AC_TRY_COMPILE([
#include <netdb.h>
struct hostent *gethostbyaddr(const void *, size_t, int);],
[return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_GETHOSTBYADDRVOID="#define ISC_LWRES_GETHOSTBYADDRVOID 1"],
[AC_MSG_RESULT(no)
ISC_LWRES_GETHOSTBYADDRVOID="#undef ISC_LWRES_GETHOSTBYADDRVOID"])
AC_SUBST(ISC_LWRES_GETHOSTBYADDRVOID)
```

```
AC_MSG_CHECKING(for h_errno in netdb.h)
AC_TRY_COMPILE([
#include <netdb.h>],
[h_errno = 1; return(0);],
[AC_MSG_RESULT(yes)
ISC_LWRES_NEEDHERRNO="#undef ISC_LWRES_NEEDHERRNO"],
[AC_MSG_RESULT(no)
ISC_LWRES_NEEDHERRNO="#define ISC_LWRES_NEEDHERRNO 1"])
AC_SUBST(ISC_LWRES_NEEDHERRNO)
```

```

AC_CHECK_FUNC(getipnodebyname,
    [ISC_LWRES_GETIPNODEPROTO="#undef ISC_LWRES_GETIPNODEPROTO"],
    [ISC_LWRES_GETIPNODEPROTO="#define ISC_LWRES_GETIPNODEPROTO 1"])
AC_CHECK_FUNC(getnameinfo,
    [ISC_LWRES_GETNAMEINFOPROTO="#undef ISC_LWRES_GETNAMEINFOPROTO"],
    [ISC_LWRES_GETNAMEINFOPROTO="#define ISC_LWRES_GETNAMEINFOPROTO 1"])
AC_CHECK_FUNC(getaddrinfo,
    [ISC_LWRES_GETADDRINFOPROTO="#undef ISC_LWRES_GETADDRINFOPROTO"
AC_DEFINE(HAVE_GETADDRINFO)],
    [ISC_LWRES_GETADDRINFOPROTO="#define ISC_LWRES_GETADDRINFOPROTO 1"])
AC_CHECK_FUNC(gai_strerror, AC_DEFINE(HAVE_GAISTRERROR))
AC_SUBST(ISC_LWRES_GETIPNODEPROTO)
AC_SUBST(ISC_LWRES_GETADDRINFOPROTO)
AC_SUBST(ISC_LWRES_GETNAMEINFOPROTO)
AC_CHECK_FUNC(pselect,
    [NEED_PSELECT="#undef NEED_PSELECT"],
    [NEED_PSELECT="#define NEED_PSELECT"])
AC_SUBST(NEED_PSELECT)
AC_CHECK_FUNC(gettimeofday,
    [NEED_GETTIMEOFDAY="#undef NEED_GETTIMEOFDAY"],
    [NEED_GETTIMEOFDAY="#define
NEED_GETTIMEOFDAY 1"])
AC_SUBST(NEED_GETTIMEOFDAY)
AC_CHECK_FUNC(strndup,
    [HAVE_STRNDUP="#define HAVE_STRNDUP 1"],
    [HAVE_STRNDUP="#undef HAVE_STRNDUP"])
AC_SUBST(HAVE_STRNDUP)

#
# Look for a sysctl call to get the list of network interfaces.
#
AC_MSG_CHECKING(for interface list sysctl)
AC_EGREP_CPP(found_rt_iflist, [
#include <sys/param.h>
#include <sys/sysctl.h>
#include <sys/socket.h>
#ifdef NET_RT_IFLIST
found_rt_iflist
#endif
],
    [AC_MSG_RESULT(yes)
AC_DEFINE(HAVE_IFLIST_SYSCTL)],
    [AC_MSG_RESULT(no)])

#
# Check for some other useful functions that are not ever-present.
#
AC_CHECK_FUNC(strsep,

```

```

[ISC_PLATFORM_NEEDSTRSEP="#undef ISC_PLATFORM_NEEDSTRSEP"],
[ISC_PLATFORM_NEEDSTRSEP="#define ISC_PLATFORM_NEEDSTRSEP 1"])
AC_CHECK_FUNC(vsnprintf,
[ISC_PLATFORM_NEEDVSNPRINTF="#undef ISC_PLATFORM_NEEDVSNPRINTF"],
[ISC_EXTRA_OBJS="$ISC_EXTRA_OBJS print.$O"
ISC_EXTRA_SRCS="$ISC_EXTRA_SRCS print.c"
ISC_PLATFORM_NEEDVSNPRINTF="#define ISC_PLATFORM_NEEDVSNPRINTF 1"])
AC_SUBST(ISC_PLATFORM_NEEDSTRSEP)
AC_SUBST(ISC_PLATFORM_NEEDVSNPRINTF)

AC_SUBST(ISC_EXTRA_OBJS)
AC_SUBST(ISC_EXTRA_SRCS)
AC_CHECK_FUNC(strerror,
[USE_SYSERROR_LIST="#undef
USE_SYSERROR_LIST"],
[USE_SYSERROR_LIST="#define USE_SYSERROR_LIST 1"])
AC_SUBST(USE_SYSERROR_LIST)

#
# Determine the printf format characters to use when printing
# values of type isc_int64_t. We make the assumption that platforms
# where a "long long" is the same size as a "long" (e.g., Alpha/OSF1)
# want "%ld" and everyone else can use "%lld". Win32 uses "%I64d",
# but that's defined elsewhere since we don't use configure on Win32.
#
AC_MSG_CHECKING(printf format modifier for 64-bit integers)
AC_TRY_RUN([main() { exit(!(sizeof(long long int) == sizeof(long int))); }],
[AC_MSG_RESULT(l)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "l"'],
[AC_MSG_RESULT(ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT "ll"'],
[AC_MSG_RESULT(default ll)
ISC_PLATFORM_QUADFORMAT="#define ISC_PLATFORM_QUADFORMAT
"ll"'])
AC_SUBST(ISC_PLATFORM_QUADFORMAT)

#
# Security Stuff
#
AC_CHECK_FUNC(chroot, AC_DEFINE(HAVE_CHROOT))

#
# for accept, recvfrom, getpeername etc.
#
AC_MSG_CHECKING(for socket length type)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>

```

```

int accept(int, struct sockaddr *, socklen_t *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T socklen_t"
AC_MSG_RESULT(socklen_t)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned int *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned int"
AC_MSG_RESULT(unsigned int)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, unsigned long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T unsigned long"
AC_MSG_RESULT(unsigned long)]
,
AC_TRY_COMPILE([
#include <sys/types.h>
#include <sys/socket.h>
int accept(int, struct sockaddr *, long *);
],[],
[ISC_SOCKLEN_T="#define ISC_SOCKLEN_T long"
AC_MSG_RESULT(long)]
,
ISC_SOCKLEN_T="#define
ISC_SOCKLEN_T int"
AC_MSG_RESULT(int)
)))))
AC_SUBST(ISC_SOCKLEN_T)

AC_CHECK_FUNC(getgrouplist,
AC_TRY_COMPILE(
[#include <unistd.h>
int
getgrouplist(const char *name, int basegid, int *groups, int *ngroups) {
}
],
[return (0);],
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, int basegid, int *groups, int
*ngroups"
,
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"

```

```

),
GETGROUPLIST_ARGS="#define GETGROUPLIST_ARGS const char *name, gid_t basegid, gid_t *groups, int
*ngroups"
AC_DEFINE(NEED_GETGROUPLIST)
)
AC_SUBST(GETGROUPLIST_ARGS)

AC_CHECK_FUNC(setgroupent,,AC_DEFINE(NEED_SETGROUPENT))

AC_CHECK_FUNC(getnetbyaddr_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct netent *
getnetbyaddr_r(long net, int type, struct netent *result, char *buffer,
int buflen) { }
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS
char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetbyaddr_r (unsigned long int, int, struct netent *,
char *, size_t, struct netent **, int *);
],
[return (0)],
[

```

```

NET_R_ARGS="#define NET_R_ARGS char *buf, size_t buflen, struct netent **answerp, int *h_errnop"
NET_R_BAD="#define NET_R_BAD ERANGE"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS char *buf, size_t buflen"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#define NET_R_SETANSWER 1"
NET_R_RETURN="#define NET_R_RETURN
int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T unsigned long int"
NETENT_DATA="#undef NETENT_DATA"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#define _OSF_SOURCE
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetbyaddr_r(int, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int"
NETENT_DATA="#define NETENT_DATA 1"
],
AC_TRY_COMPILE(
#undef __USE_MISC
#define __USE_MISC
[#include <netdb.h>
int getnetbyaddr_r (long, int, struct netent *, struct netent_data *);
],
[return (0)],
[
NET_R_ARGS="#define NET_R_ARGS struct netent_data *ndptr"
NET_R_BAD="#define NET_R_BAD (-1)"
NET_R_COPY="#define
NET_R_COPY ndptr"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS struct netent_data *ndptr"
NET_R_OK="#define NET_R_OK 0"
NET_R_SETANSWER="#undef NET_R_SETANSWER"

```

```

NET_R_RETURN="#define NET_R_RETURN int"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#define NETENT_DATA 1"
],
)
)
)
)
)
,
NET_R_ARGS="#define NET_R_ARGS char *buf, int buflen"
NET_R_BAD="#define NET_R_BAD NULL"
NET_R_COPY="#define NET_R_COPY buf, buflen"
NET_R_COPY_ARGS="#define NET_R_COPY_ARGS NET_R_ARGS"
NET_R_OK="#define NET_R_OK nptr"
NET_R_SETANSWER="#undef NET_R_SETANSWER"
NET_R_RETURN="#define NET_R_RETURN struct netent *"
GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T long"
NETENT_DATA="#undef NETENT_DATA"
)
case "$host" in
*dec-osf*) GETNETBYADDR_ADDR_T="#define GETNETBYADDR_ADDR_T int" ;;
esac
AC_SUBST(NET_R_ARGS)
AC_SUBST(NET_R_BAD)
AC_SUBST(NET_R_COPY)
AC_SUBST(NET_R_COPY_ARGS)
AC_SUBST(NET_R_OK)
AC_SUBST(NET_R_SETANSWER)
AC_SUBST(NET_R_RETURN)
AC_SUBST(GETNETBYADDR_ADDR_T)
AC_SUBST(NETENT_DATA)

AC_CHECK_FUNC(setnetent_r,
AC_TRY_COMPILE(
[
#undef
__USE_MISC
#define __USE_MISC
#include <netdb.h>
void setnetent_r (int);
],[return (0);],[
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
],
AC_TRY_COMPILE(
[
#define _REENTRANT

```

```

#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int setnetent_r(int, struct netent_data *);
],[return (0);],[
NET_R_ENT_ARGS="#define NET_R_ENT_ARGS struct netent_data *ndptr"
NET_R_SET_RESULT="#define NET_R_SET_RESULT NET_R_OK"
NET_R_SET_RETURN="#define NET_R_SET_RETURN int"
],
)
)
,
NET_R_ENT_ARGS="#undef NET_R_ENT_ARGS /*empty*/"
NET_R_SET_RESULT="#undef NET_R_SET_RESULT /*empty*/"
NET_R_SET_RETURN="#define NET_R_SET_RETURN void"
)
AC_SUBST(NET_R_ENT_ARGS)
AC_SUBST(NET_R_SET_RESULT)
AC_SUBST(NET_R_SET_RETURN)

AC_CHECK_FUNC(endnetent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include
<netdb.h>
void endnetent_r (void);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) return (x)"
NET_R_END_RETURN="#define NET_R_END_RETURN int"
],
AC_TRY_COMPILE(
[

```



```

#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endnetent_r(struct netent_data *);
],[return (0);],[
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
],
)
)
)
,
NET_R_END_RESULT="#define NET_R_END_RESULT(x) /*empty*/"
NET_R_END_RETURN="#define NET_R_END_RETURN void"
)
AC_SUBST(NET_R_END_RESULT)
AC_SUBST(NET_R_END_RETURN)

AC_CHECK_FUNC(getgrnam_r,,AC_DEFINE(NEED_GETGRNAM_R))
AC_CHECK_FUNC(getgrgid_r,,AC_DEFINE(NEED_GETGRGID_R))

AC_CHECK_FUNC(getgrent_r,
AC_TRY_COMPILE(
[
#include
<grp.h>
struct group *getgrent_r(struct group *grp, char *buffer,
int buflen) {}
],[return (0);],[
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
],
)
,
GROUP_R_ARGS="#define GROUP_R_ARGS char *buf, int buflen"
GROUP_R_BAD="#define GROUP_R_BAD NULL"
GROUP_R_OK="#define GROUP_R_OK gptr"
GROUP_R_RETURN="#define GROUP_R_RETURN struct group *"
AC_DEFINE(NEED_GETGRENT_R)
)
AC_SUBST(GROUP_R_ARGS)
AC_SUBST(GROUP_R_BAD)
AC_SUBST(GROUP_R_OK)
AC_SUBST(GROUP_R_RETURN)

```

```

AC_CHECK_FUNC(endgrent_r,
,
GROUP_R_END_RESULT="#define GROUP_R_END_RESULT(x) /*empty*/"
GROUP_R_END_RETURN="#define GROUP_R_END_RETURN void"
GROUP_R_ENT_ARGS="#define GROUP_R_ENT_ARGS void"
AC_DEFINE(NEED_ENDGRENT_R)
)
AC_SUBST(GROUP_R_END_RESULT)
AC_SUBST(GROUP_R_END_RETURN)
AC_SUBST(GROUP_R_ENT_ARGS)

AC_CHECK_FUNC(setgrent_r,
,
GROUP_R_SET_RESULT="#undef
GROUP_R_SET_RESULT /*empty*/"
GROUP_R_SET_RETURN="#define GROUP_R_SET_RETURN void"
AC_DEFINE(NEED_SETGRENT_R)
)
AC_SUBST(GROUP_R_SET_RESULT)
AC_SUBST(GROUP_R_SET_RETURN)

AC_CHECK_FUNC(gethostbyname_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct hostent *gethostbyname_r
(const char *name, struct hostent *hp, char *buf, int len, int *h_errnop) {}
],
[return (0);],
[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC

```

```

#include <netdb.h>
int gethostbyname_r(const
char *name,
        struct hostent *result,
        struct hostent_data *hdptr);
],[
HOST_R_ARGS="#define HOST_R_ARGS struct hostent_data *hdptr"
HOST_R_BAD="#define HOST_R_BAD (-1)"
HOST_R_COPY="#define HOST_R_COPY hdptr"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS HOST_R_ARGS"
HOST_R_ERRNO="#define HOST_R_ERRNO NULL"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#define HOSTENT_DATA 1"
],
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int gethostbyname_r (const char *,
        struct hostent *,
        char *, size_t,
        struct hostent **,
        int *);
],[
HOST_R_ARGS="#define HOST_R_ARGS char *buf, size_t buflen, struct hostent **answerp, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD ERANGE"
HOST_R_COPY="#define
HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK 0"
HOST_R_RETURN="#define HOST_R_RETURN int"
HOST_R_SETANSWER="#define HOST_R_SETANSWER 1"
HOSTENT_DATA="#undef HOSTENT_DATA"
],
)))
,
HOST_R_ARGS="#define HOST_R_ARGS char *buf, int buflen, int *h_errnop"
HOST_R_BAD="#define HOST_R_BAD NULL"
HOST_R_COPY="#define HOST_R_COPY buf, buflen"
HOST_R_COPY_ARGS="#define HOST_R_COPY_ARGS char *buf, int buflen"
HOST_R_ERRNO="#define HOST_R_ERRNO *h_errnop = h_errno"
HOST_R_OK="#define HOST_R_OK hptr"
HOST_R_RETURN="#define HOST_R_RETURN struct hostent *"
HOST_R_SETANSWER="#undef HOST_R_SETANSWER"
HOSTENT_DATA="#undef HOSTENT_DATA"

```

```

)
AC_SUBST(HOST_R_ARGS)
AC_SUBST(HOST_R_BAD)
AC_SUBST(HOST_R_COPY)
AC_SUBST(HOST_R_COPY_ARGS)
AC_SUBST(HOST_R_ERRNO)
AC_SUBST(HOST_R_OK)
AC_SUBST(HOST_R_RETURN)
AC_SUBST(HOST_R_SETANSWER)
AC_SUBST(HOSTENT_DATA)

AC_CHECK_FUNC(endhostent_r,
AC_TRY_COMPILE([
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int endhostent_r(struct hostent_data *buffer);
], ,
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) return (x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN int"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(struct hostent_data *ht_data);
],[
],,[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x)"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#define HOST_R_ENT_ARGS struct hostent_data *hdptr"
],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void endhostent_r(void);
],[
],,[
HOST_R_END_RESULT="#define HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"

```

```

],
)
)
)
,
HOST_R_END_RESULT="#define
HOST_R_END_RESULT(x) /*empty*/"
HOST_R_END_RETURN="#define HOST_R_END_RETURN void"
HOST_R_ENT_ARGS="#undef HOST_R_ENT_ARGS /*empty*/"
)
AC_SUBST(HOST_R_END_RESULT)
AC_SUBST(HOST_R_END_RETURN)
AC_SUBST(HOST_R_ENT_ARGS)

AC_CHECK_FUNC(sethostent_r,
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern void sethostent_r(int flag, struct hostent_data *ht_data);,[],
[HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT /*empty*/"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int sethostent_r(int flag, struct hostent_data *ht_data);,[],
[HOST_R_SET_RESULT="#define HOST_R_SET_RESULT 0"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN int"],
AC_TRY_COMPILE([
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void sethostent_r (int);,[],
[HOST_R_SET_RESULT="#undef
HOST_R_SET_RESULT"
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"],
)
)
)
,
HOST_R_SET_RESULT="#undef HOST_R_SET_RESULT"

```

```
HOST_R_SET_RETURN="#define HOST_R_SET_RETURN void"
)
AC_SUBST(HOST_R_SET_RESULT)
AC_SUBST(HOST_R_SET_RETURN)
```

```
AC_MSG_CHECKING(struct passwd element pw_class)
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
],[struct passwd *pw; pw->pw_class = "";],
AC_MSG_RESULT(yes)
AC_DEFINE(HAS_PW_CLASS)
,
AC_MSG_RESULT(no)
)
```

```
AC_TRY_COMPILE([
#include <sys/types.h>
#include <pwd.h>
void
setpwent(void) {}
],
[return (0);],
SETPWENT_VOID="#define SETPWENT_VOID 1"
,
SETPWENT_VOID="#undef SETPWENT_VOID"
)
AC_SUBST(SETPWENT_VOID)
```

```
AC_TRY_COMPILE([
#include <sys/types.h>
#include <grp.h>
void
setgrent(void) {}
],
[return (0);],
SETGRENT_VOID="#define SETGRENT_VOID 1"
,
SETGRENT_VOID="#undef SETGRENT_VOID"
)
AC_SUBST(SETGRENT_VOID)
```

```
AC_CHECK_FUNC(getnetgrent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
```

```

#include <netdb.h>
int
getnetgrent_r(char **m, char **u, char **d, char *b, int l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getnetgrent_r(char **m, char **u, char **d, char *b, size_t l) {}
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS char *buf, size_t buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
extern int getnetgrent_r( char **, char **, char **, void **);
]
,
[return (0);],
[
NGR_R_ARGS="#define NGR_R_ARGS void **buf"
NGR_R_BAD="#define NGR_R_BAD
(0)"
NGR_R_COPY="#define NGR_R_COPY buf"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"

```

```

NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
NGR_R_PRIVATE="#define NGR_R_PRIVATE 1"
]
,
)
)
)
,
NGR_R_ARGS="#define NGR_R_ARGS char *buf, int buflen"
NGR_R_BAD="#define NGR_R_BAD (0)"
NGR_R_COPY="#define NGR_R_COPY buf, buflen"
NGR_R_COPY_ARGS="#define NGR_R_COPY_ARGS NGR_R_ARGS"
NGR_R_OK="#define NGR_R_OK 1"
NGR_R_RETURN="#define NGR_R_RETURN int"
)
AC_SUBST(NGR_R_ARGS)
AC_SUBST(NGR_R_BAD)
AC_SUBST(NGR_R_COPY)
AC_SUBST(NGR_R_COPY_ARGS)
AC_SUBST(NGR_R_OK)
AC_SUBST(NGR_R_RETURN)
AC_SUBST(NGR_R_PRIVATE)

AC_CHECK_FUNC(endnetgrent_r,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) return (x)"
NGR_R_END_RETURN="#define NGR_R_END_RETURN int"
NGR_R_ENT_ARGS="#define NGR_R_ENT_ARGS NGR_R_ARGS"
,
NGR_R_END_RESULT="#define NGR_R_END_RESULT(x) /*empty*/"
NGR_R_END_RETURN="#define NGR_R_END_RETURN void"
NGR_R_ENT_ARGS="#undef NGR_R_ENT_ARGS /*empty*/"
AC_DEFINE(NEED_ENDNETGRENT_R)
)
AC_SUBST(NGR_R_END_RESULT)
AC_SUBST(NGR_R_END_RETURN)
AC_SUBST(NGR_R_ENT_ARGS)

AC_CHECK_FUNC(setnetgrent_r,
[
case
"$host" in
*bsd*)
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
;;
*)
NGR_R_SET_RESULT="#define NGR_R_SET_RESULT NGR_R_OK"

```



```

NGR_R_SET_RETURN="#define NGR_R_SET_RETURN int"
;;
esac
]
,
NGR_R_SET_RESULT="#undef NGR_R_SET_RESULT /*empty*/"
NGR_R_SET_RETURN="#define NGR_R_SET_RETURN void"
)
AC_SUBST(NGR_R_SET_RESULT)
AC_SUBST(NGR_R_SET_RETURN)

AC_CHECK_FUNC(innetgr_r,,AC_DEFINE(NEED_INNETGR_R))

AC_CHECK_FUNC(getprotoent_r,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct protoent *getprotoent_r(struct protoent *result,
    char *buffer, int buflen) { }
]
,
[return (0);]
,
[
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define
    PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define PROTO_R_RETURN struct protoent *"
]
,
AC_TRY_COMPILE(
[
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int getprotoent_r (struct protoent *, char *, size_t, struct protoent **);
]
,
[return (0);]
,
[

```

```

PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, size_t buflen, struct protoent **answerp"
PROTO_R_BAD="#define PROTO_R_BAD ERANGE"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS char *buf, size_t buflen"
PROTO_R_OK="#define PROTO_R_OK 0"
PROTO_R_SETANSWER="#define PROTO_R_SETANSWER 1"
PROTO_R_RETURN="#define PROTO_R_RETURN int"
]
,
)
)
,
PROTO_R_ARGS="#define PROTO_R_ARGS char *buf, int buflen"
PROTO_R_BAD="#define PROTO_R_BAD NULL"
PROTO_R_COPY="#define PROTO_R_COPY buf, buflen"
PROTO_R_COPY_ARGS="#define PROTO_R_COPY_ARGS PROTO_R_ARGS"
PROTO_R_OK="#define PROTO_R_OK pptr"
PROTO_R_SETANSWER="#undef PROTO_R_SETANSWER"
PROTO_R_RETURN="#define
PROTO_R_RETURN struct protoent *"
)
AC_SUBST(PROTO_R_ARGS)
AC_SUBST(PROTO_R_BAD)
AC_SUBST(PROTO_R_COPY)
AC_SUBST(PROTO_R_COPY_ARGS)
AC_SUBST(PROTO_R_OK)
AC_SUBST(PROTO_R_SETANSWER)
AC_SUBST(PROTO_R_RETURN)

AC_CHECK_FUNC(endprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endprotoent_r(void);
]
,
[
PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS"
]
,
)
,

```

```

PROTO_R_END_RESULT="#define PROTO_R_END_RESULT(x) /*empty*/"
PROTO_R_END_RETURN="#define PROTO_R_END_RETURN void"
PROTO_R_ENT_ARGS="#undef PROTO_R_ENT_ARGS /*empty*/"
)
AC_SUBST(PROTO_R_END_RESULT)
AC_SUBST(PROTO_R_END_RETURN)
AC_SUBST(PROTO_R_ENT_ARGS)

AC_CHECK_FUNC(setprotoent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setprotoent_r __P((int));
],[],
PROTO_R_SET_RESULT="#undef
PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
,
)
,
PROTO_R_SET_RESULT="#undef PROTO_R_SET_RESULT"
PROTO_R_SET_RETURN="#define PROTO_R_SET_RETURN void"
)
AC_SUBST(PROTO_R_SET_RESULT)
AC_SUBST(PROTO_R_SET_RETURN)

AC_CHECK_FUNC(getpwent_r,
AC_TRY_COMPILE(
[
#include <sys/types.h>
#include <pwd.h>
struct passwd *
getpwent_r(struct passwd *pwptr, char *buf, int buflen) { }
]
,
[]
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd *"
,

```

```

)
,
PASS_R_ARGS="#define PASS_R_ARGS char *buf, int buflen"
PASS_R_BAD="#define PASS_R_BAD NULL"
PASS_R_COPY="#define PASS_R_COPY buf, buflen"
PASS_R_COPY_ARGS="#define PASS_R_COPY_ARGS PASS_R_ARGS"
PASS_R_OK="#define PASS_R_OK pwptr"
PASS_R_RETURN="#define PASS_R_RETURN struct passwd
*"
AC_DEFINE(NEED_GETPWENT_R)
)
AC_SUBST(PASS_R_ARGS)
AC_SUBST(PASS_R_BAD)
AC_SUBST(PASS_R_COPY)
AC_SUBST(PASS_R_COPY_ARGS)
AC_SUBST(PASS_R_OK)
AC_SUBST(PASS_R_RETURN)

AC_CHECK_FUNC(endpwent_r,
AC_TRY_COMPILE(
[
#include <pwd.h>
void endpwent_r(FILE **pwfp);
], ,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#define PASS_R_ENT_ARGS FILE **pwptr"
,
)
,
PASS_R_END_RESULT="#define PASS_R_END_RESULT(x) /*empty*/"
PASS_R_END_RETURN="#define PASS_R_END_RETURN void"
PASS_R_ENT_ARGS="#undef PASS_R_ENT_ARGS"
AC_DEFINE(NEED_ENDPWENT_R)
)
AC_SUBST(PASS_R_END_RESULT)
AC_SUBST(PASS_R_END_RETURN)
AC_SUBST(PASS_R_ENT_ARGS)
AC_CHECK_FUNC(setpassent_r,,AC_DEFINE(NEED_SETPASSENT_R))
AC_CHECK_FUNC(setpassent,,AC_DEFINE(NEED_SETPASSENT))

AC_CHECK_FUNC(setpwent_r,
AC_TRY_COMPILE([
#include <pwd.h>
void setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /* empty */"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN

```

```

int"
,
AC_TRY_COMPILE([
#include <pwd.h>
int setpwent_r(FILE **pwfp);
], ,
PASS_R_SET_RESULT="#define PASS_R_SET_RESULT 0"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN int"
,
)
)
,
PASS_R_SET_RESULT="#undef PASS_R_SET_RESULT /*empty*/"
PASS_R_SET_RETURN="#define PASS_R_SET_RETURN void"
AC_DEFINE(NEED_SETPWENT_R)
)
AC_SUBST(PASS_R_SET_RESULT)
AC_SUBST(PASS_R_SET_RETURN)

AC_CHECK_FUNC(getpwnam_r,,AC_DEFINE(NEED_GETPWNAM_R))
AC_CHECK_FUNC(getpwuid_r,,AC_DEFINE(NEED_GETPWUID_R))

AC_CHECK_FUNC(getservent_r,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
struct servent *
getservent_r(struct servent *result, char *buffer, int buflen) { }
],[return (0);],
[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN
struct servent *"
]
,
AC_TRY_COMPILE([
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
int
getservent_r (struct servent *, char *, size_t, struct servent **);
],[return (0);],

```

```

[
SERV_R_ARGS="#define SERV_R_ARGS char *buf, size_t buflen, struct servent **answerp"
SERV_R_BAD="#define SERV_R_BAD ERANGE"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS char *buf, size_t buflen"
SERV_R_OK="#define SERV_R_OK (0)"
SERV_R_SETANSWER="#define SERV_R_SETANSWER 1"
SERV_R_RETURN="#define SERV_R_RETURN int"
]
,
)
)
,
SERV_R_ARGS="#define SERV_R_ARGS char *buf, int buflen"
SERV_R_BAD="#define SERV_R_BAD NULL"
SERV_R_COPY="#define SERV_R_COPY buf, buflen"
SERV_R_COPY_ARGS="#define SERV_R_COPY_ARGS SERV_R_ARGS"
SERV_R_OK="#define SERV_R_OK sptr"
SERV_R_SETANSWER="#undef SERV_R_SETANSWER"
SERV_R_RETURN="#define SERV_R_RETURN struct servent *"
)
AC_SUBST(SERV_R_ARGS)
AC_SUBST(SERV_R_BAD)
AC_SUBST(SERV_R_COPY)
AC_SUBST(SERV_R_COPY_ARGS)
AC_SUBST(SERV_R_OK)
AC_SUBST(SERV_R_SETANSWER)
AC_SUBST(SERV_R_RETURN)

AC_CHECK_FUNC(endservent_r,
AC_TRY_COMPILE(
[
#undef
_REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void endservent_r(void);
]
,
,
[
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
]
,

```

```

)
,
SERV_R_END_RESULT="#define SERV_R_END_RESULT(x) /*empty*/"
SERV_R_END_RETURN="#define SERV_R_END_RETURN void "
SERV_R_ENT_ARGS="#undef SERV_R_ENT_ARGS /*empty*/"
)
AC_SUBST(SERV_R_END_RESULT)
AC_SUBST(SERV_R_END_RETURN)
AC_SUBST(SERV_R_ENT_ARGS)

AC_CHECK_FUNC(setservent_r,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <netdb.h>
void      setservent_r(int);
]
"
[
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define SERV_R_SET_RETURN void"
]
,
)
,
SERV_R_SET_RESULT="#undef SERV_R_SET_RESULT"
SERV_R_SET_RETURN="#define
SERV_R_SET_RETURN void"
)
AC_SUBST(SERV_R_SET_RESULT)
AC_SUBST(SERV_R_SET_RETURN)

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(const char *netgroup, const char *host, const char *user, const char *domain);
]
"
[
INNETGR_ARGS="#undef INNETGR_ARGS"

```

```

]
,
AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
int inetgr(char *netgroup, char *host, char *user, char *domain);
]
”
[
INNETGR_ARGS="#define INNETGR_ARGS char *netgroup, char *host, char *user, char *domain"
]
,
))

```

```

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void setnetgrent(const char *);
]
”
[
SETNETGRENT_ARGS="#undef SETNETGRENT_ARGS"
]
,

```

```

AC_TRY_COMPILE(
[
#undef _REENTRANT
#define _REENTRANT
#undef __USE_MISC
#define __USE_MISC
#include <unistd.h>
#include <netdb.h>
void
setnetgrent(char *);
]
”
[
SETNETGRENT_ARGS="#define SETNETGRENT_ARGS char *netgroup"

```



```

]
,
))
AC_SUBST(SETNETGRENT_ARGS)
AC_SUBST(INNETGR_ARGS)

#
# Random remaining OS-specific issues involving compiler warnings.
# XXXDCL print messages to indicate some compensation is being done?
#
AC_SUBST(ISC_PLATFORM_BRACEPTHREADONCEINIT)
ISC_PLATFORM_BRACEPTHREADONCEINIT="#undef ISC_PLATFORM_BRACEPTHREADONCEINIT"
BROKEN_IN6ADDR_INIT_MACROS="#undef BROKEN_IN6ADDR_INIT_MACROS"

case "$host" in
*-bsd3.1*)
hack_shutup_sputaux=yes
;;
*-bsd4.0*)
hack_shutup_sigwait=yes
hack_shutup_sputaux=yes
hack_shutup_in6addr_init_macros=yes
;;
*-bsd4.1*)
hack_shutup_stdargcast=yes
;;
*-solaris2.8)
hack_shutup_pthreadonceinit=yes
hack_shutup_in6addr_init_macros=yes
;;
esac

case "$hack_shutup_pthreadonceinit" in
yes)
#
# Shut up PTHREAD_ONCE_INIT unbraced initializer warnings.
#
ISC_PLATFORM_BRACEPTHREADONCEINIT="#define ISC_PLATFORM_BRACEPTHREADONCEINIT 1"
;;
esac

case
"$hack_shutup_sigwait" in
yes)
#
# Shut up a -Wmissing-prototypes warning for sigwait().
#
AC_DEFINE(SHUTUP_SIGWAIT)

```

```

;;
esac

case "$hack_shutup_sputaux" in
yes)
#
# Shut up a -Wmissing-prototypes warning from <stdio.h>.
#
AC_DEFINE(SHUTUP_SPUTAUX)
;;
esac

case "$hack_shutup_stdargcast" in
yes)
#
# Shut up a -Wcast-qual warning from va_start().
#
AC_DEFINE(SHUTUP_STDARG_CAST)
;;
esac

case "$hack_shutup_in6addr_init_macros" in
yes)
AC_DEFINE(BROKEN_IN6ADDR_INIT_MACROS)
;;
esac

#
# Substitutions
#
AC_SUBST(BIND9_TOP_BUILDDIR)
BIND9_TOP_BUILDDIR=`pwd`

AC_SUBST_FILE(BIND9_INCLUDES)
BIND9_INCLUDES=$BIND9_TOP_BUILDDIR/make/includes

AC_SUBST_FILE(BIND9_MAKE_RULES)
BIND9_MAKE_RULES=$BIND9_TOP_BUILDDIR/make/rules

. $srcdir/../../version
BIND9_VERSION="VERSION=${MAJORVER}.${MINORVER}.${PATCHVER}${RELEASETYPE}${RELEASEVER}"
AC_SUBST(BIND9_VERSION)

AC_SUBST_FILE(LIBBIND_API)
LIBBIND_API=$srcdir/api

AC_OUTPUT(

```

```
make/rules
make/mkdep
make/includes
Makefile
bsd/Makefile
dst/Makefile
include/Makefile
inet/Makefile
irs/Makefile
isc/Makefile
nameser/Makefile
port_after.h
port_before.h
resolv/Makefile
port/Makefile
${PORT_DIR}/Makefile
${PORT_INCLUDE}/Makefile
)
```

```
#
# Tell Emacs to edit this file in shell mode.
# Local Variables:
# mode: sh
# End:
```

```
Found in path(s):
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/configure.in
No license file was found, but licenses were detected in source scan.
```

```
/*
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*/
```

```
Found in path(s):
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/assertions.c
```

\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/assertions.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/heap.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/mem.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/heap.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/include/lwres/list.h  
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gen\_ho.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/include/irs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/nis\_p.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gen\_nw.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/hesiod\_p.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gen\_pw.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_net\_pton.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gen\_p.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/dns\_pw.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/nis\_ng.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/nameser/ns\_ttl.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/dns\_pr.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/nameser/ns\_parse.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h

```

* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/util.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/gen_pr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/hesiod.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nul_ng.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/nameser/ns_netint.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nis_ho.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nis_sv.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getpwent.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/hesiod.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/nameser/ns_name.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/dns_sv.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/bitncmp.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getnetgrent.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getprotoent.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nis_nw.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/lcl_p.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/irs_data.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/irs_data.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/decunix/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/inet/inet_net_ntop.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/pathnames.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nis_pw.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/irs_p.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/inet/inet_neta.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/gen_sv.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/gen_ng.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/getserverent.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/irs/nis_pr.c

```

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/lcl\_sv.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/lcl\_gr.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/nis\_gr.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/lcl\_nw.c

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/refcount.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/zonekey.c

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Found in path(s):

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isccfg/include/isccfg/cfg.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/threads/mutex.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/unix/include/lwres/net.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/errno2result.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/ipv6.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/gssapi_link.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/fsaccess.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/lwres_gnba.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/request.c
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-->

<!-- \$Id: lwres\_getipnode.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>



</refentryinfo>

<refmeta>

<refentrytitle>lwres\_getipnode</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_getipnodebyname</refname>

<refname>lwres\_getipnodebyaddr</refname>

<refname>lwres\_freehostent</refname>

<refpurpose>lightweight resolver nodename / address translation API</refpurpose>

</refnamediv>

<refsynopsisdiv>

<functsynopsis>

<functsynopsisinfo>#include <lwres/netdb.h></functsynopsisinfo>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_getipnodebyname</function></funcdef>

<paramdef>const char \*name</paramdef>

<paramdef>int af</paramdef>

<paramdef>int flags</paramdef>

<paramdef>int \*error\_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

struct hostent \*

<function>lwres\_getipnodebyaddr</function></funcdef>

<paramdef>const void \*src</paramdef>

<paramdef>size\_t len</paramdef>

<paramdef>int

af</paramdef>

<paramdef>int \*error\_num</paramdef>

</funcprototype>

<funcprototype>

<funcdef>

void

<function>lwres\_freehostent</function></funcdef>

<paramdef>struct hostent \*he</paramdef>

</funcprototype>

</functsynopsis>

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

These functions perform thread safe, protocol independent  
nodename-to-address and address-to-nodename  
translation as defined in RFC2553.

</para>

<para>

They use a

<type>struct hostent</type>

which is defined in

<filename>namedb.h</filename>:

<programlisting>

```
struct hostent {
    char  *h_name;    /* official name of host */
    char  **h_aliases; /* alias list */
    int   h_addrtype; /* host address type */
    int   h_length;   /* length of address */
    char  **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure

are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical) name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned - usually

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A

<type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyname()</function>

looks

up addresses of protocol family

<parameter>af</parameter>

for the hostname

<parameter>name</parameter>.

The

<parameter>flags</parameter>

parameter contains ORed flag bits to

specify the types of addresses that are searched

for, and the types of addresses that are returned.

The flag bits are:

<variablelist>

<varlistentry><term><constant>AI\_V4MAPPED</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes IPv4 addresses to be returned as IPv4-mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ALL</constant></term>

<listitem>

<para>

This is used with an

<parameter>af</parameter>

of AF\_INET6, and causes all known addresses (IPv6 and IPv4) to be returned.

If AI\_V4MAPPED is also set, the IPv4 addresses are return as mapped IPv6 addresses.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_ADDRCONFIG</constant></term>

<listitem>

<para>

Only return an IPv6 or

IPv4 address if here is an active network

interface of that type. This is not currently implemented

in the BIND 9 lightweight resolver, and the flag is ignored.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>AI\_DEFAULT</constant></term>

<listitem>

<para>

This default sets the

<constant>AI\_V4MAPPED</constant>

and

<constant>AI\_ADDRCONFIG</constant>

flag bits.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<function>lwres\_getipnodebyaddr()</function>

performs a reverse lookup

of address

<parameter>src</parameter>

which is

<parameter>len</parameter>

bytes long.

<parameter>af</parameter>

denotes the protocol family, typically

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

<para>

<function>lwres\_freehostent()</function>

releases all the memory associated with

the

<type>struct hostent</type>

pointer

<parameter>he</parameter>.

Any memory allocated for the  
<constant>h\_name</constant>,

<constant>h\_addr\_list</constant>  
and

<constant>h\_aliases</constant>  
is

freed, as is the memory for the  
<type>hostent</type>  
structure itself.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

If an error occurs,

<function>lwres\_getipnodebyname()</function>

and

<function>lwres\_getipnodebyaddr()</function>

set

<parameter>\*error\_num</parameter>

to an appropriate error code and the function returns a

<type>NULL</type>

pointer.

The error codes and their meanings are defined in

<filename>&lt;lwres/netdb.h&gt;</filename>:

<variablelist>

<varlistentry><term><constant>HOST\_NOT\_FOUND</constant></term>

<listitem>

<para>

No such host is known.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_ADDRESS</constant></term>

<listitem>

<para>

The server recognised the request and the name but no address is  
available. Another type of request to the name server for the  
domain might return an answer.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>TRY\_AGAIN</constant></term>

<listitem>

<para>

A temporary and possibly

transient error occurred, such as a

failure of a server to respond. The request may succeed if

retrieved.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>NO\_RECOVERY</constant></term>

</listitem>

<para>

An unexpected failure occurred, and retrying the request is pointless.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

translates these error codes to suitable error messages.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>RFC2553</refentrytitle>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_getnameinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/getgrent.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/nsap\_addr.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gen.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/inet/inet\_ntop.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/lcl.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/resolv/res\_update.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/include/isc/logging.h

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/dns\_nw.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/dns\_gr.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/gethostent.c

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/dst/md5_dgst.c
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*
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```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/heap.c
```

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/isc/list.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/bsd/utimes.c
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/isc/heap.h
```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/memcluster.c
```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/isc/assertions.c
```



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.\" $Id: lwres_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
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\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/syslog.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind9/getaddresses.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/streerror.c

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/include/irp.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/include/isc/irpmarshall.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/nameser/ns\_date.c  
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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/forward.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/include/lwres/ipv6.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/diff.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/ondestroy.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/stdio.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/lookup.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/keyboard.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/lwresutil.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/stdio.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/nothreads/mutex.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/forward.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/version.c

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/fsaccess.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/ondestroy.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/nothreads/include/isc/once.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/keyboard.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/os.c

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/nothreads/condition.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/stats.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/errno2result.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/offset.h
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/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/lwbuffer.c
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/hex.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/gssapictx.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/unistd.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/gai_strerror.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/gethost.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/include/lwres/int.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/quota.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/file.h

```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/keytable.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/stdio.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/lwres_noop.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/bit.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/formatcheck.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/stats.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/lwres_gabn.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/keytable.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/hmacmd5.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/entropy.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/ntpats.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/include/lwres/context.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/lwres_grbn.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/resource.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/nameser/ns_verify.c
```

```
*
```

```
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/nameser/ns_sign.c
```

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/bind/include/res_update.h
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.\"  
.\" \$Id: lwres.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
.\"

Found in path(s):

\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres.3  
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\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/rp\_17.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/sec/dst/dst\_lib.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/mutexblock.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/taskpool.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/interfaceiter.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/sec/dst/dst\_result.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/in\_1/aaaa\_28.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/commandline.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/rcode.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/dir.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/callbacks.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/stdtime.c  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/dbiterator.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/serial.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/tcpmsg.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/bitstring.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/dir.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/rdatastructsuf.h

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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/dir.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/rdata/ist.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/stdtime.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/rp_17.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/threads/include/isc/once.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/nls/msgcat.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/tcpmsg.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/wks_11.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/x25_19.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/lib.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/serial.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/syslog.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/bitstring.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/int.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/dir.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/interfaceiter.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/key_25.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/syslog.h
*

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/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdatasetiter.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/px_26.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/dbtable.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/fixname.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/tkey.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/cert_37.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/rootns.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/random.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/cert.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/msgcat.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rbtdb.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/stdtime.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/gen-unix.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/once.h
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* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dname_39.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/ipv6.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rbtdb64.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/base64.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/isdn_20.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/tests/include/tests/t_api.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/dbiterator.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/time.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/app.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/resultclass.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/lib.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/dname_39.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/a6_38.h

```

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/secalg.h

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\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/ds.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/iscconf/namedconf.c

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Found in

path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rbtdb.c

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\*/

Found in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/getnameinfo.c

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```

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/make/rules.in

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-->

<!-- \$Id: lwres\_resutil.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_resutil</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

```

<refnamediv>
<refname>lwres_string_parse</refname>
<refname>lwres_addr_parse</refname>
<refname>lwres_getaddrbyname</refname>
<refname>lwres_getnamebyaddr</refname>
<refpurpose>lightweight resolver utility functions</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_string_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>char **c</paramdef>
<paramdef>lwres_uint16_t *len</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_addr_parse</function></funcdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_addr_t *addr</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getaddrbyname</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>const char *name</paramdef>
<paramdef>lwres_uint32_t addrtypes</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_getnamebyaddr</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_uint32_t addrtype</paramdef>
<paramdef>lwres_uint16_t addrlen</paramdef>
<paramdef>const unsigned char *addr</paramdef>
<paramdef>lwres_gnbaresponse_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

<refsect1>  
<title>DESCRIPTION</title>

<para>  
<function>lwres\_string\_parse()</function> retrieves a DNS-encoded string starting the current pointer of lightweight resolver buffer <parameter>b</parameter>: i.e. <constant>b-&gt;current</constant>. When the function returns, the address of the first byte of the encoded string is returned via <parameter>\*c</parameter> and the length of that string is given by <parameter>\*len</parameter>. The buffer's current pointer is advanced to point at the character following the string length, the encoded string, and the trailing <type>NULL</type> character.  
</para>

<para>  
<function>lwres\_addr\_parse()</function> extracts an address from the buffer <parameter>b</parameter>. The buffer's current pointer <constant>b-&gt;current</constant> is presumed to point at an encoded address: the address preceded by a 32-bit protocol family identifier and a 16-bit length field. The encoded address is copied to <constant>addr-&gt;address</constant> and <constant>addr-&gt;length</constant> indicates the size in bytes of the address that was copied. <constant>b-&gt;current</constant> is advanced to point at the next byte of available data in the buffer following the encoded address.  
</para>

<para>  
<function>lwres\_getaddrbyname()</function>  
and  
<function>lwres\_getnamebyaddr()</function>  
use the  
<type>lwres\_gnbaresponse\_t</type>  
structure  
defined below:

```
<programlisting>
typedef struct {
    lwres_uint32_t    flags;
    lwres_uint16_t    naliases;
    lwres_uint16_t    naddrs;
    char              *realname;
    char              **aliases;
    lwres_uint16_t    realnamelen;
    lwres_uint16_t    *aliaslen;
    lwres_addrlist_t  addrs;
    void              *base;

```

```
    size_t      baselen;
} lwres_gabnresponse_t;
```

</programlisting>

The contents of this structure are not manipulated directly but they are controlled through the

<citerefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions.

</para>

<para>

The lightweight resolver uses

<function>lwres\_getaddrbyname()</function> to perform forward lookups.

Hostname <parameter>name</parameter> is looked up using the resolver context <parameter>ctx</parameter> for memory allocation.

<parameter>addrtypes</parameter>

is a bitmask indicating which type of

addresses are to be looked up. Current values for this bitmask are

<type>LWRES\_ADDRTYPE\_V4</type> for IPv4 addresses and

<type>LWRES\_ADDRTYPE\_V6</type> for IPv6 addresses. Results of the

lookup are returned in <parameter>\*structp</parameter>.

</para>

<para>

<function>lwres\_getnamebyaddr()</function> performs reverse lookups.

Resolver context <parameter>ctx</parameter> is used for memory allocation. The address type is indicated by

<parameter>addrtype</parameter>: <type>LWRES\_ADDRTYPE\_V4</type> or

<type>LWRES\_ADDRTYPE\_V6</type>. The address to be looked up is given

by <parameter>addr</parameter> and its length is

<parameter>addrlen</parameter> bytes. The result of the function call

is made available through <parameter>\*structp</parameter>.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

<function>lwres\_string\_parse()</function>

and

<function>lwres\_addr\_parse()</function>

return

<errorcode>LWRES\_R\_SUCCESS.</errorcode>

Both

functions return

<errorcode>LWRES\_R\_FAILURE</errorcode>

if the buffer is corrupt or

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>

<function>lwres\_getaddrbyname()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

on success and it returns

<errorcode>LWRES\_R\_NOTFOUND</errorcode>

if the hostname

<parameter>name</parameter>

could not be found.

</para>

<para>

<errorcode>LWRES\_R\_SUCCESS</errorcode>

is returned by a successful call to

<function>lwres\_getnamebyaddr()</function>.

</para>

<para>

Both

<function>lwres\_getaddrbyname()</function>

and

<function>lwres\_getnamebyaddr()</function>

return

<errorcode>LWRES\_R\_NOMEMORY</errorcode>

when memory allocation requests fail and

<errorcode>LWRES\_R\_UNEXPECTEDEND</errorcode>

if the buffers used for sending queries and receiving replies are too small.

</para>

</refsect1>

<refsect1>

<title>SEE

ALSO</title>

<para>

<citerefentry>

<refentrytitle>lwres\_buffer</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

<citerefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_resutil.docbook

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-->

<!-- \$Id: lwres\_gethostent.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_gethostent</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_gethostbyname</refname>

<refname>lwres\_gethostbyname2</refname>

<refname>lwres\_gethostbyaddr</refname>

<refname>lwres\_gethostent</refname>

<refname>lwres\_sethostent</refname>

```

<refname>lwres_endhostent</refname>
<refname>lwres_gethostbyname_r</refname>
<refname>lwres_gethostbyaddr_r</refname>
<refname>lwres_gethostent_r</refname>
<refname>lwres_sethostent_r</refname>
<refname>lwres_endhostent_r</refname>
<refpurpose>lightweight resolver get network host entry</refpurpose>
</refnamediv>
<refsynopsisdiv>
<functsynopsis>
<functsynopsisinfo>#include <lwres/netdb.h></functsynopsisinfo>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname</function></funcdef>
<paramdef>const char *name</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct
hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>int af</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void

```



```

</function>lwres_endhostent</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyname_r</function></funcdef>
<paramdef>const char *name</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int
buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostbyaddr_r</function></funcdef>
<paramdef>const char *addr</paramdef>
<paramdef>int len</paramdef>
<paramdef>int type</paramdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
struct hostent *
<function>lwres_gethostent_r</function></funcdef>
<paramdef>struct hostent *resbuf</paramdef>
<paramdef>char *buf</paramdef>
<paramdef>int buflen</paramdef>
<paramdef>int *error</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_sethostent_r</function></funcdef>
<paramdef>int stayopen</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_endhostent_r</function></funcdef>
<paramdef>void</paramdef>
</funcprototype>
</funcsynopsis>

```

</refsynopsisdiv>

<refsect1>

<title>DESCRIPTION</title>

<para>

These

functions provide hostname-to-address and address-to-hostname lookups by means of the lightweight resolver.

They are similar to the standard

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

functions provided by most operating systems.

They use a

<type>struct hostent</type>

which is usually defined in

<filename>&lt;namedb.h&gt;</filename>.

<programlisting>

```
struct hostent {
    char *h_name; /* official name of host */
    char **h_aliases; /* alias list */
    int h_addrtype; /* host address type */
    int h_length; /* length of address */
    char **h_addr_list; /* list of addresses from name server */
};
#define h_addr h_addr_list[0] /* address, for backward compatibility */
```

</programlisting>

</para>

<para>

The members of this structure are:

<variablelist>

<varlistentry><term><constant>h\_name</constant></term>

<listitem>

<para>

The official (canonical)

name of the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_aliases</constant></term>

<listitem>

<para>

A NULL-terminated array of alternate names (nicknames) for the host.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addrtype</constant></term>

<listitem>

<para>

The type of address being returned &mdash;

<type>PF\_INET</type>

or

<type>PF\_INET6</type>.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_length</constant></term>

<listitem>

<para>

The length of the address in bytes.

</para>

</listitem></varlistentry>

<varlistentry><term><constant>h\_addr\_list</constant></term>

<listitem>

<para>

A <type>NULL</type>

terminated array of network addresses for the host.

Host addresses are returned in network byte order.

</para>

</listitem></varlistentry>

</variablelist>

</para>

<para>

For backward compatibility with very old software,

<constant>h\_addr</constant>

is the first address in

<constant>h\_addr\_list.</constant>

</para>

<para>

<function>lwres\_gethostent(</function>,</function>

<function>lwres\_sethostent(</function>,</function>

<function>lwres\_endhostent(</function>,</function>

<function>lwres\_gethostent\_r(</function>,</function>

<function>lwres\_sethostent\_r(</function>

and

<function>lwres\_endhostent\_r(</function>

provide

iteration over the known host entries on systems that

provide such functionality through facilities like

<filename>/etc/hosts</filename>

or NIS. The lightweight resolver does not currently implement

these functions; it only provides them as stub functions that always

return failure.

</para>

<para>

<function>lwres\_gethostbyname(</function> and

`lwres_gethostbyname2()` look up the hostname `name`.

`lwres_gethostbyname()` always looks for an IPv4 address while `lwres_gethostbyname2()` looks for an address of protocol family `af`: either `PF_INET` or `PF_INET6` &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a `struct hostent` for the name that was looked up. `NULL` is returned if the lookups by `lwres_gethostbyname()` or `lwres_gethostbyname2()` fail.

Reverse lookups of addresses are performed by `lwres_gethostbyaddr()`.

`addr` is an address of length `len` bytes and protocol family `type` &mdash; `PF_INET` or `PF_INET6`.

`lwres_gethostbyname_r()` is a thread-safe function for forward lookups. If an error occurs, an error code is returned in `*error`.

`resbuf` is a pointer to a `struct hostent` which is initialised by a successful call to `lwres_gethostbyname_r()`.

`buf` is a buffer of length `len` bytes which is used to store the `h_name`, `h_aliases`, and `h_addr_list` elements of the `struct hostent` returned in `resbuf`.

Successful calls to `lwres_gethostbyname_r()` return `resbuf`, which is a pointer to the `struct hostent` it created.

`lwres_gethostbyaddr_r()` is a thread-safe function that performs a reverse lookup of address `addr` which is `len` bytes long and is of protocol family `type` &mdash; `PF_INET` or `PF_INET6`. If an error occurs, the error code is returned in `*error`. The other function parameters are identical to those in `lwres_gethostbyname_r()`.

`resbuf` is a pointer to a `struct hostent` which is initialised by a successful call to

`lwres_gethostbyaddr_r()`.  
`buf`  
is a buffer of length  
`len` bytes which is used to store the  
`h_name`, `h_aliases`, and  
`h_addr_list` elements of the `struct`  
`hostent` returned in `resbuf`. Successful  
calls to `lwres_gethostbyaddr_r()` return  
`resbuf`, which is a pointer to the  
`struct hostent()` it created.

**RETURN VALUES**

The functions

`lwres_gethostbyname()`,  
`lwres_gethostbyname2()`,  
`lwres_gethostbyaddr()`,  
and

`lwres_gethostent()`

return NULL to indicate an error. In this case the global variable

`lwres_h_errno`

will contain one of the following error codes defined in

`&lt;lwres/netdb.h&gt;`:

`HOST_NOT_FOUND`

The

host or address was not found.

`TRY_AGAIN`

A recoverable error occurred, e.g., a timeout.

Retrying the lookup may succeed.

`NO_RECOVERY`

A non-recoverable error occurred.

</listitem></varlistentry>  
<varlistentry><term><constant>NO\_DATA</constant></term>  
<listitem>  
<para>  
The name exists, but has no address information associated with it (or vice versa in the case of a reverse lookup). The code NO\_ADDRESS is accepted as a synonym for NO\_DATA for backwards compatibility.  
</para>  
</listitem></varlistentry>  
</variablelist>  
</para>

<para>  
<citerefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citerefentry>  
translates these error codes to suitable error messages.  
</para>

<para>  
<function>lwres\_gethostent</function>  
and  
<function>lwres\_gethostent\_r</function>  
always  
return  
<type>NULL</type>.  
</para>

<para>  
Successful calls to <function>lwres\_gethostbyname\_r</function> and <function>lwres\_gethostbyaddr\_r</function> return <parameter>resbuf</parameter>, a pointer to the <type>struct hostent</type> that was initialised by these functions. They return <type>NULL</type> if the lookups fail or if <parameter>buf</parameter> was too small to hold the list of addresses and names referenced by the <constant>h\_name</constant>, <constant>h\_aliases</constant>, and <constant>h\_addr\_list</constant> elements of the <type>struct hostent</type>. If <parameter>buf</parameter> was too small, both <function>lwres\_gethostbyname\_r</function> and <function>lwres\_gethostbyaddr\_r</function> set the global variable <type>errno</type> to <errorcode>ERANGE</errorcode>.  
</para>

</refsect1>  
<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,</refsect1>

<citerefentry>

<refentrytitle>lwres\_getipnode</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,</refsect1>

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3</manvolnum>

</manvolnum>

</citerefentry>

</para>

</refsect1>

<refsect1>

<title>BUGS</title>

<para>

<function>lwres\_gethostbyname()</function>,</refsect1>

<function>lwres\_gethostbyname2()</function>,</refsect1>

<function>lwres\_gethostbyaddr()</function>

and

<function>lwres\_endhostent()</function>

are

not thread safe; they return pointers to static data and

provide error codes through a global variable.

Thread-safe versions for name and address lookup are provided by

<function>lwres\_gethostbyname\_r()</function>,</refsect1>

and

<function>lwres\_gethostbyaddr\_r()</function>

respectively.

</para>

<para>

The resolver daemon does not currently support any non-DNS

name services such as

<filename>/etc/hosts</filename>

or

<type>NIS</type>,</refsect1>

consequently the above functions don't, either.

</para>

</refsect1>

</refentry>

Found in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gethostent.docbook

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*/
```

Found in path(s):

```
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```

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```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/zt.c
```

```
*
```

```
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/wks_11.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/x25_19.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/netaddr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/ncache.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.c
```



```

* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/ratelimiter.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/rdataslab.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/nsap_22.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/ipv6.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/include/isc/log.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/tsig.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/gpos_27.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/ratelimiter.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/dnssec.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/master.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/rbt.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/journal.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/zt.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/nxt_30.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/isdn_20.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/lfsr.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/callbacks.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/acl.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/hs_4/a_1.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/tsig.h
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/events.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/masterdump.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/acl.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/unspec_103.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/compress.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rootns.c

```

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```

/*
* eventlib.em
*
* Eventlib error message compiler input file
*
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*/

```

```

/*
* The file basename is the facility name, the name is made
* uppercase. This file defines facility EVENTLIB
*/
module {
    description "EVENTLIB system messages";
}

```

```

errmsg HISTSUMM {

```

```

severity err;
category software;
cdets_component iosxe-binos-utils;

format "dispatch start: %llums elapsed time: %llums detected hog: %u set count: %u ";
arg {
"int" dispatch_time "event dispatch time";
"int" elapsed_time "event elapsed time";
"int" hog_detected "event hog detected";
"int" set_count "event set count since dispatch"
}
explanation
    "Eventlib historical summary for detected hog.";

action
    "This event summary is part of a CPUHOG or TIMEHOG error, "
    "providing diagnostic details useful
to engineering. "
    "Save this summary message along with the HOG error. ";

tac_details
    "Eventlib historical summary for detected hog.";
}

errmsg HISTELEM {
severity err;
category software;
cdets_component iosxe-binos-utils;

format "elem[%u] event: %s %s set: %llums unset: %llums hog check: %d caller: %p app-info: %s";

arg {
"int" set_count "element set count";
"char *" position_string "event call type";
"char *" position_string "event condition";
"int" set_time "element set time";
"int" unset_time "element unset time";
"int" hog_check "element hog check result";
"int" caller "caller builtin return address";
"char *" any_string "element callback render buffer";
}
explanation
    "Eventlib historical element for detected hog.";

action
    "This event element is part of a CPUHOG or TIMEHOG error, "
    "providing diagnostic details useful to engineering. "
    "Save all element

```

messages along with the HOG error. ";

```
    tac_details
        "Eventlib historical element for detected hog.";
}
```

Found in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/isc/eventlib.em

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.\\$Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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.\"Dt DOCUMENT_TITLE [section number] [volume]
.\" This next request is for sections 1, 6, 7 & 8 only
.\" .Sh ENVIRONMENT
.\" .Sh FILES
.\" .Sh EXAMPLES
.\" This next request is for sections 1, 6, 7 & 8 only
.\" (command return values (to shell) and
.\" fprintf/stderr type diagnostics)
.\" .Sh DIAGNOSTICS
.\" The next request is for sections 2 and 3 error
.\" and signal handling only.
.\" .Sh STANDARDS
.\" .Sh HISTORY
.\" .Sh BUGS

```

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```
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```

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/include/isc/sockaddr.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/name.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rcode.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/gen.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/lex.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/name.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/result.h  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/socket.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/time.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/result.c  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/rdata.h

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/resolv/res\_debug.c

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<!-- \$Id: lwres\_config.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

<refentry>

<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

<refmeta>

<refentrytitle>lwres\_config</refentrytitle>

<manvolnum>3</manvolnum>

<refmiscinfo>BIND9</refmiscinfo>

</refmeta>

<refnamediv>

<refname>lwres\_conf\_init</refname>

<refname>lwres\_conf\_clear</refname>

<refname>lwres\_conf\_parse</refname>

<refname>lwres\_conf\_print</refname>

<refname>lwres\_conf\_get</refname>

<refpurpose>lightweight resolver configuration</refpurpose>

</refnamediv>

```

<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h>;</funcsynopsisinfo>
<funcprototype>
<funcdef>
void
<function>lwres_conf_init</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_conf_clear</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>const
char *filename</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_conf_print</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>FILE *fp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_conf_t *
<function>lwres_conf_get</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>

```

```

<refsect1>
<title>DESCRIPTION</title>
<para>
<function>lwres_conf_init()</function>
creates an empty
<type>lwres_conf_t</type>
structure for lightweight resolver context
<parameter>ctx</parameter>.

```

</para>  
<para>  
<function>lwres\_conf\_clear()</function>  
frees up all the internal memory used by  
that  
<type>lwres\_conf\_t</type>  
structure in resolver context  
<parameter>ctx</parameter>.  
</para>  
<para>  
<function>lwres\_conf\_parse()</function>  
opens the file  
<parameter>filename</parameter>  
and parses it to initialise the resolver context  
<parameter>ctx</parameter>'s  
<type>lwres\_conf\_t</type>  
structure.  
</para>  
<para>  
<function>lwres\_conf\_print()</function>  
prints  
the  
<type>lwres\_conf\_t</type>  
structure for resolver context  
<parameter>ctx</parameter>  
to the  
<type>FILE</type>  
<parameter>fp</parameter>.  
</para>  
</refsect1>  
<refsect1>

<title>RETURN VALUES</title>  
<para>  
<function>lwres\_conf\_parse()</function>  
returns  
<errorcode>LWRES\_R\_SUCCESS</errorcode>  
if it successfully read and parsed  
<parameter>filename</parameter>.  
It returns  
<errorcode>LWRES\_R\_FAILURE</errorcode>  
if  
<parameter>filename</parameter>  
could not be opened or contained incorrect  
resolver statements.  
</para>  
<para>  
<function>lwres\_conf\_print()</function>

returns

<errorcode>LWRES\_R\_SUCCESS</errorcode>

unless an error occurred when converting the network addresses to a numeric host address string.

If this happens, the function returns

<errorcode>LWRES\_R\_FAILURE</errorcode>.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citerefentry>

<refentrytitle>stdio</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&p>

<citerefentry>

<refentrytitle>resolver</refentrytitle><manvolnum>5</manvolnum>

</citerefentry>.

</refsect1>

<refsect1>

<title>FILES</title>

<para>

<filename>/etc/resolv.conf</filename>

</para>

</refsect1>

</refentry>

Found

in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_config.docbook

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gethostent.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getipnode.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_config.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gnba.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_buffer.html

\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_packet.docbook

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_context.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_inetntop.html

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres.docbook  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_hsterror.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_packet.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gai\_sterror.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_noop.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_hsterror.docbook  
\*  
/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gabn.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gai\_sterror.docbook  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_resutil.html  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.docbook  
\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_noop.docbook

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\*

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\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/bind/irs/irp\_p.h

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.\" \$Id: lwres\_getaddrinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found

in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.3

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/\*

```

* Get the response to 'request' by filling in 'message'.
*
* 'options' is passed
to dns_message_parse(). See dns_message_parse()
* for more details.
*
* Requires:
*
* 'request' is a valid request for which the caller has received the
* completion event.
*
* The result code of the completion event was ISC_R_SUCCESS.
*
* Returns:
*
* ISC_R_SUCCESS
*
* Any result that dns_message_parse() can return.
*/

```

Found in path(s):

```

* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/request.h

```

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<!-- $Id: lwres_gabn.docbook,v
1.1 2004/11/03 01:39:06 abstine Exp $ -->

<refentry>
<refentryinfo>

```

```

<date>Jun 30, 2000</date>
</refentryinfo>
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<refentrytitle>lwres_gabn</refentrytitle>
<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
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<refname>lwres_gabnrequest_render</refname>
<refname>lwres_gabnresponse_render</refname>
<refname>lwres_gabnrequest_parse</refname>
<refname>lwres_gabnresponse_parse</refname>
<refname>lwres_gabnresponse_free</refname>
<refname>lwres_gabnrequest_free</refname>
<refpurpose>lightweight resolver getaddrbyname message handling</refpurpose>
</refnamediv>
<refsynopsisdiv>
<funcsynopsis>
<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_render</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_render</function></funcdef>
<paramdef>lwres_context_t
*ctx</paramdef>
<paramdef>lwres_gabnresponse_t *req</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnrequest_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>

```

```

<funcprototype>
<funcdef>
lwres_result_t
<function>lwres_gabnresponse_parse</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_buffer_t *b</paramdef>
<paramdef>lwres_lwpacket_t *pkt</paramdef>
<paramdef>lwres_gabnresponse_t **structp</paramdef>
</funcprototype>
<funcprototype>
<funcdef>
void
<function>lwres_gabnresponse_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnresponse_t
**structp</paramdef>
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void
<function>lwres_gabnrequest_free</function></funcdef>
<paramdef>lwres_context_t *ctx</paramdef>
<paramdef>lwres_gabnrequest_t **structp</paramdef>
</funcprototype>
</funcsynopsis>
</refsynopsisdiv>
<refsect1>
<title>DESCRIPTION</title>
<para>
These are low-level routines for creating and parsing
lightweight resolver name-to-address lookup request and
response messages.
</para><para>
There are four main functions for the getaddrbyname opcode.
One render function converts a getaddrbyname request structure &mdash;
<type>lwres_gabnrequest_t</type> &mdash;
to the lightweight resolver's canonical format.
It is complemented by a parse function that converts a packet in this
canonical format to a getaddrbyname request structure.
Another render function converts the getaddrbyname response structure &mdash;
<type>lwres_gabnresponse_t</type> &mdash;
to the canonical format.
This is complemented by a parse function which
converts a packet in
canonical format to a getaddrbyname response structure.
</para>
<para>
These structures are defined in

```

<filename>&lt;lwres/lwres.h&gt;</filename>.

They are shown below.

<programlisting>

```
#define LWRES_OPCODE_GETADDRSBYNAME 0x00010001U
```

```
typedef struct lwres_addr lwres_addr_t;
```

```
typedef LWRES_LIST(lwres_addr_t) lwres_addrlist_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint32_t addrtypes;
```

```
    lwres_uint16_t namelen;
```

```
    char          *name;
```

```
} lwres_gabnrequest_t;
```

```
typedef struct {
```

```
    lwres_uint32_t flags;
```

```
    lwres_uint16_t naliases;
```

```
    lwres_uint16_t naddrs;
```

```
    char          *realname;
```

```
    char          **aliases;
```

```
    lwres_uint16_t realnamelen;
```

```
    lwres_uint16_t *aliaslen;
```

```
    lwres_addrlist_t addrs;
```

```
    void          *base;
```

```
    size_t        baselen;
```

```
} lwres_gabnresponse_t;
```

</programlisting>

</para>

<para>

<function>lwres\_gabnrequest\_render()</function>

uses

resolver context

<parameter>ctx</parameter>

to convert getaddrbyname request structure

<parameter>req</parameter>

to canonical format.

The packet header structure

<parameter>pkt</parameter>

is initialised and transferred to

buffer

<parameter>b</parameter>.

The contents of

<parameter>\*req</parameter>

are then appended to the buffer in canonical format.

<function>lwres\_gabnresponse\_render()</function>

performs the same task, except it converts a getaddrbyname response structure

<type>lwres\_gabnresponse\_t</type>  
to the lightweight resolver's canonical format.

</para>

<para>

<function>lwres\_gabnrequest\_parse()</function>

uses context

<parameter>ctx</parameter>

to convert the contents of packet

<parameter>pkt</parameter>

to a

<type>lwres\_gabnrequest\_t</type>

structure.

Buffer

<parameter>b</parameter>

provides space to be used for storing this structure.

When the function succeeds, the resulting

<type>lwres\_gabnrequest\_t</type>

is

made available through

<parameter>\*structp</parameter>.

<function>lwres\_gabnresponse\_parse()</function>

offers the same semantics as

<function>lwres\_gabnrequest\_parse()</function>

except it yields a

<type>lwres\_gabnresponse\_t</type>

structure.

</para>

<para>

<function>lwres\_gabnresponse\_free()</function>

and

<function>lwres\_gabnrequest\_free()</function>

release the memory in resolver context

<parameter>ctx</parameter>

that was allocated to the

<type>lwres\_gabnresponse\_t</type>

or

<type>lwres\_gabnrequest\_t</type>

structures referenced via

<parameter>structp</parameter>.

Any memory associated with ancillary buffers and strings for those structures is also discarded.

</para>

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

The `lwres_gabnrequest_render()`, `lwres_gabnresponse_render()`, `lwres_gabnrequest_parse()` and `lwres_gabnresponse_parse()` functions

`lwres_gabnrequest_render()`,  
`lwres_gabnresponse_render()`  
`lwres_gabnrequest_parse()`  
and

`lwres_gabnresponse_parse()`

all return

`LWRES_R_SUCCESS`

on

success.

They return

`LWRES_R_NOMEMORY`

if memory allocation fails.

`LWRES_R_UNEXPECTEDEND`

is returned if the available space in the buffer

`b`

is too small to accommodate the packet header or the

`lwres_gabnrequest_t`

and

`lwres_gabnresponse_t`

structures.

`lwres_gabnrequest_parse()`

and

`lwres_gabnresponse_parse()`

will return

`LWRES_R_UNEXPECTEDEND`

if the buffer is not empty after decoding the received packet.

These functions will return

`LWRES_R_FAILURE`

if

`pktflags`

in the packet header structure

`lwres_lwpacket_t`

indicate that the packet is not a response to an earlier query.

**SEE ALSO**

`lwres_packet`

Found



in path(s):

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/man/lwres\_gabn.docbook  
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\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/tests/t\_api.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/view.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/adb.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/ncache.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/sockaddr.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/win32/include/isc/net.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/ifiter\_ioctl.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/message.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/key\_25.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/loc\_29.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/dispatch.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/generic/tkey\_249.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/db.h

\*

/opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdataset.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/interfaceiter.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/rdata/any\_255/tsig\_250.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/view.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/master.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/message.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/masterdump.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/lwres/getipnode.c

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/dns/include/dns/dispatch.h

\* /opt/cola/permits/1210918043\_1634587135.54/0/lib-tar/lib/isc/unix/net.c

```

* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/zone.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/nxt_30.c
*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/win32/net.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/rdataset.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/xfrin.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/resolver.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdataslab.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/generic/cert_37.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/include/dns/zone.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/ifiter_sysctl.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rbt.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/app.c
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*
/opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/unix/include/isc/net.h
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/isc/random.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/adb.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/rdata/in_1/a6_38.c
* /opt/cola/permits/1210918043_1634587135.54/0/lib-tar/lib/dns/dnssec.c
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## 1.623 polycoreutils 2.9-9.e18

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<one line to give the program's name and a brief idea of what it does.>

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## 1.624 libestr 0.1.10-1.el8

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Any

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Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

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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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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.

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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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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# 1.632 coreutils-common 8.30-8.el8

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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# 1.644 pcre 10.32-2.el8

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### THE BASIC LIBRARY FUNCTIONS

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## 1.646 device-mapper-libs 8:1.02.175-

## 0.4.20201222gitb84a992.el8

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Version 2.1, February 1999

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## 1.647 elfutils 0.182-3.el8

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```
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```

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```
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```

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1 April 1989  
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# 1.656 crypto-policies 20200713-

## 1.git51d1222.el8

### 1.656.1 Available under license :

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

That's all there is to it!

## 1.657 pam 1.3.1-14.el8

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```

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\* @file DISCO\_IOT\_53L0A1\_DataLogTerminal.ino

\* @author WI6LABS from AST

\* @version V1.0.0

\* @date 07 July 2017

\* @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit

\* based on FlightSense.

\* This application makes use of C++ classes obtained from the C

\* components' drivers.

\*\*\*\*\*

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\* @file RangeSensor.h  
\* @author AST / EST  
\* @version V0.0.1  
\* @date 13-April-2015  
\* @brief This file contains the abstract class describing in general  
\* the interfaces of a range sensor

\*\*\*\*\*

\* @attention

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\* @file vl53l0x\_class.cpp

\* @author IMG

\* @version V0.0.1

\* @date 28-June-2016

\* @brief Implementation file for the VL53L0X driver class

\*\*\*\*\*

\* @attention

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\* @file DISCO\_IOT\_53L0A1\_Gesture\_Swipe1.ino

\* @author WI6LABS from AST

\* @version V1.0.0

\* @date 07 July 2017

\* @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit

\* based on FlightSense and gesture library.

\* This application makes use of C++ classes obtained from the C

\* components' drivers.

\*\*\*\*\*

\* @attention

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\* @file ComponentObject.h  
\* @author AST  
\* @version V1.0.0  
\* @date April 13th, 2015  
\* @brief This file contains the abstract class describing the interface of a  
\* generic component.

\*\*\*\*\*

\* @attention

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\* @file DISCO\_IOT\_53L0A1\_Gesture\_Tap1.ino  
\* @author WI6LABS from AST  
\* @version V1.0.0  
\* @date 07 July 2017  
\* @brief Arduino test application for the STMicroelectronics STM32 IOT Discovery Kit  
\* based on FlightSense and gesture library.  
\* This application makes use of C++ classes obtained from the C  
\* components' drivers.

\*\*\*\*\*

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

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## 1.674 libbpf 0.3 r0

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# 1.675 linux-kernel v4.9.268 8bc5d0c60dca

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# 1.676 compiler 9.0.1 r0

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:      // %bb.0:
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
```

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s

;

; Test that early if conversion produces LOCR with operands of the right

; register classes.

```
define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246
```

```
CF246:                                ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248
```

```
CF248:                                ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}
```

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; NOTE: Assertions have been autogenerated by utils/update\_analyze\_test\_checks.py

; RUN: opt < %s -cost-model -analyze -mtriple=x86\_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX

; RUN: opt < %s -cost-model -analyze -mtriple=x86\_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256

; RUN: opt < %s -cost-model -analyze -mtriple=x86\_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

```
define void @zext256() "min-legal-vector-width"="256" {
```

```
; VEC256-LABEL: 'zext256'
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i64> undef to <8 x i64>
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
```



```

; VEC256-NEXT:
  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16>
undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of
  1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x

```

```

i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256("min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D
= sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>

```

```

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of
1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E
= sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for
instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x

```

```

i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16>
undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

```

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-----

```

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*/
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void

```

```

}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK:
define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

```

-----  
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-----

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```
; RUN: llc -march=hexagon < %s
```

```
; REQUIRES: asserts
```

```
; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
```

```
target triple = "hexagon"
```

```
%struct.0 = type { i8*, i8, %union.anon.0 }
```

```
%union.anon.0 = type { i8* }
```

```
define hidden fastcc void @fred() unnamed_addr #0 {
```

```
entry:
```

```
br i1 undef, label %while.end, label %while.body.lr.ph
```

```
while.body.lr.ph:                                ; preds = %entry
```

```
br label %while.body
```

```
while.body:                                     ; preds = %exit.2, %while.body.lr.ph
```

```
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
```

```
switch i32 undef, label %exit [
```

```
  i32 1, label %sw.bb.i
```

```
  i32 2, label %sw.bb3.i
```

```
]
```

```
sw.bb.i:                                        ; preds = %while.body
```

```
unreachable
```

```
sw.bb3.i:                                      ; preds = %while.body
```

```
unreachable
```

```

exit:
                                ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

sw.bb.i17:                                ; preds = %exit
%0 = bitcast %struct.0* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:                                ; preds = %exit
%2 = bitcast %struct.0* %lshr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:                                ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.iv, i32 1
br label %while.body

while.end:                                ; preds = %entry
ret void
}

```

```
attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
```

```

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```

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```
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
```

```
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {  
; CHECK-LABEL: test_sitofp_fixed:
```

```
    ; First, extend each i32 to i64
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
```

```
    ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
```

```
    ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
    ; Next, convert each to double.
```

```
    ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
```

```
    ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
```

```
    ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
```

```
    ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
```

```
    ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
```

```
    ; CHECK: ret
```

```
    %flt = sitofp <16 x i32>
```

```
    %in to <16 x double>
```

```
    %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,  
double 64.0>
```

```
    ret <16 x double> %res
```

```
    }
```

```
    ; This one is small enough to satisfy isSimple, but still illegally large.
```

```
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
```

```
    ; CHECK-LABEL: test_sitofp_fixed_shortish:
```

```
    ; CHECK-DAG: scvtf.2d v0, v0
```

```
    ; CHECK-DAG: scvtf.2d v1, v1
```

```
    ; CHECK: ret
```

```
    %flt = sitofp <4 x i64> %in to <4 x double>
```

```
    %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
```

```
ret <4 x double> %res
}
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#
# Please keep the list sorted.
```

```
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Billy
Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
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Paul Redmond <paul.redmond@gmail.com>  
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```
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"
```

```
; Check that for i8 type, the maximum legal offset is 31.
; Also check that a constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8*
%4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo
```

```
@goo = global i8* undef
```

```
define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile
```



```

i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
%[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```

```

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774
to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32

```

```

; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

```

```

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

```

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```
add_llvm_library(llvmPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp
```

```
LINK_LIBS
```

```
  llvmCore
```

```
  llvmHost
```

```
  llvmSymbol
```

```
LINK_COMPONENTS
```

```
  Support
```

```
)
```

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```
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.
```

```
target triple = "x86_64-unknown-linux-gnu"
```

```
; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
```

```
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8
x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
```

```
; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store
  <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL:
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
i64>*
  readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x
i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

```

```

}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

```

```

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>
%arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
bb:
  %tmp = load <8 x i64>,
<8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

```

```

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

```

```

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>
%arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg

```

```

ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8
x i64>* %arg) #3 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

```

```

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256"
"prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

```

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=x86\_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: add256:  
; CHECK:      # %bb.0:  
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0  
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT:  vpaddd 32(%rsi), %ymm1, %ymm1
```





```

; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr)
"min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @psubus_64i8_max_256(<64 x i8>* %xptr,
<64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1

```



```

; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0,
(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5

```

```

; CHECK-NEXT: vpmaddwd %ymm3,
%ymm5, %ymm3
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```
%3 = zext i32 %2 to i64
```

```
br label %vector.body
```

vector.body:

```
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
```

```
%vec.phi = phi <32 x i32>
```

```
[ %11, %vector.body ], [ zeroinitializer, %entry ]
```

```
%4 = getelementptr inbounds i8, i8* %0, i64 %index
```

```
%5 = bitcast i8* %4 to <32 x i8>*
```

```
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
```

```
%6 = sext <32 x i8> %wide.load to <32 x i32>
```

```
%7 = getelementptr inbounds i8, i8* %1, i64 %index
```

```
%8 = bitcast i8* %7 to <32 x i8>*
```

```
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
```

```
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
```

```
%10 = mul nsw <32 x i32> %9, %6
```

```
%11 = add nsw <32 x i32> %10, %vec.phi
```

```
%index.next = add i64 %index, 32
```

```
%12 = icmp eq i64 %index.next, %3
```

```
br i1 %12, label %middle.block, label %vector.body
```

middle.block:

```
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32>
```

```

undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20,
i32 0
ret i32 %13
}

```

```

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:    # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:    .LBB9_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:    vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB9_1
; CHECK-NEXT:    # %bb.2: # %middle.block
; CHECK-NEXT:    vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1

```

```

; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
;
CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {.*#+} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {.*#+} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

```

entry:

```

%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1,
%rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

```

```
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector
<32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
```

```
@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16
```

```
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header:
Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd { {.#+} } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd { {.#+} } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
br label %vector.body
```



```

; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd { {.*#+} } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd { {.*#+} } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1,
%xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```
br label %vector.body
```

vector.body:

```

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32>
%6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```
%lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
```

```
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask
= icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
```

```
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
}
```



```

; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
;
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1,
(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer

```

```

%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @ubto16f32_512(<16 x i16>
%a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1

```

```

; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld
$31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT:
vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1

```

```

; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16>
%passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask =
fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-

```

```

width="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpunpckhbw
  {{.*#+}} ymm4 =
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13
],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ym
m0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13
],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ym
m0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[
5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[
19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
;
CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[
5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[
19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT:  vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm3 =

```

```

ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
;
CHECK-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT:  vpand %ymm5, %ymm3, %ymm3
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm2 =
ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:  vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT:  vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>*
%c
ret void
}

```

```

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT:  vpunpckhbw {{.*#+}} zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;

```



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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
```

```
declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {
```

```

%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK    movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

```

```

define fp128 @TestFabs(fp128 %a) {
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
;
CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

```

```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

```

```

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```



# 1.677 go-dbus 4.0.0+gitAUTOINC+5f6efc7ef2 r0

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# 1.678 bash4 4.2 r6

## 1.678.1 Available under license :

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. :-)

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

Flags: 10

Return-Path: spcedt@armory.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 KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@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 spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@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/~spcedt/>

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@deepthought.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
```

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Version 3, 29 June 2007

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

Flags: 10

Return-Path: mikel@ora.com

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

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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@iinet.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).

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# 1.679 go-cli 1.1.0+gitAUTOINC+27ecc97192 r0

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## 1.682 go-logrus

### 0.11.0+gitAUTOINC+d264929707 r0

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## 1.683 go-fsnotify

### 1.2.11+gitAUTOINC+836bfd95fe r0

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## 1.684 go-systemd

### 4+gitAUTOINC+b4a58d9518 r0

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yaml-cpp: A YAML parser and emitter in C++  
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## 1.688 llvm-project-source-9.0.1 9.0.1 r0

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:      // %bb.0:
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
```

```

; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

```

```

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

```

```

CF246:                                ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

```

```

CF248:                                ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}

```

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; NOTE: Assertions have been autogenerated by utils/update\_analyze\_test\_checks.py

; RUN: opt < %s -cost-model -analyze -mtriple=x86\_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX

; RUN: opt < %s -cost-model -analyze -mtriple=x86\_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256

; RUN: opt < %s -cost-model -analyze -mtriple=x86\_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

```
define void @zext256() "min-legal-vector-width"="256" {
```

```
; VEC256-LABEL: 'zext256'
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
```

```
; VEC256-NEXT:
```

```
Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
```

```
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
```

```
;
```

```
; VEC512-LABEL: 'zext256'
```

```
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
```

```
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
```

```
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
```

```
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
```

```

i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16>
undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of
1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found
an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>

```

```

; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D
= sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of
1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

```

```

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E
= sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for
instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16>

```



```
undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
```

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\*/

```
; RUN: opt %s -inline -S | FileCheck %s
```

```
define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}
```

```
define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}
```

```
define internal void @innerNoAttribute() {
  ret void
}
```

```
; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
```



```
call void @innerLarge()
ret void
}
```

```
define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}
```

```
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}
```

; We should remove the attribute after inlining since the callee's  
; vector width requirements are unknown.

```
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}
```

```
; CHECK: define void @outerNoAttribute() {
; CHECK:
define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
```

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; RUN: llc -march=hexagon < %s

; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types

; cause LSR to assume type "void" for the memory type. This would then

; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8\*, i8, %union.anon.0 }

%union.anon.0 = type { i8\* }

define hidden fastcc void @fred() unnamed\_addr #0 {

entry:

br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry

br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph

%lshr.iv = phi %struct.0\* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]

switch i32 undef, label %exit [

i32 1, label %sw.bb.i

i32 2, label %sw.bb3.i

]

sw.bb.i: ; preds = %while.body

unreachable

sw.bb3.i: ; preds = %while.body

unreachable

exit:

; preds = %while.body

switch i32 undef, label %exit.2 [

i32 1, label %sw.bb.i17

i32 2, label %sw.bb3.i20

]

sw.bb.i17: ; preds = %exit

%0 = bitcast %struct.0\* %lshr.iv to i32\*

%1 = load i32, i32\* %0, align 4

unreachable

sw.bb3.i20: ; preds = %exit

```

%2 = bitcast %struct.0* %lstr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:                                ; preds = %exit
%cgpep22 = getelementptr %struct.0, %struct.0* %lstr.iv, i32 1
br label %while.body

while.end:                              ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32>
%in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.

```

```

define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

```

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```
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"
```

```
; Check that for i8 type, the maximum legal offset is 31.
```

```
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
```

```
; CHECK: foo_i8
```

```
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
```

```
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
```

```
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
```

```
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
```

```

; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8*
%4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

```

```
@goo = global i8* undef
```

```

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile
i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```
; Check that for i16 type, the maximum legal offset is 62.
```

```
; CHECK: foo_i16
```

```

; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
%[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```

```

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774
to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*

```

```
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4
```

```
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}
```

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add\_lldb\_library(lldbPluginObjectContainerBSDArchive PLUGIN  
ObjectContainerBSDArchive.cpp

LINK\_LIBS

lldbCore  
lldbHost  
lldbSymbol

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Support  
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```
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.
```

```
target triple = "x86_64-unknown-linux-gnu"
```

```
; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
```

```

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

```

```

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8
x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

```

; This should promote

; CHECK-LABEL: @callee\_avx512\_legal512\_prefer256\_call\_avx512\_legal512\_prefer256(<8 x i64>\* %arg, <8 x i64> %arg1.val)

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store
<8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

```

; This should promote

; CHECK-LABEL: @callee\_avx512\_legal512\_prefer512\_call\_avx512\_legal512\_prefer256(<8 x i64>\* %arg, <8 x



```

i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL:
  @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x

```

```

i64>*
readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; This should not promote

```

; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x
i64>* readonly %arg1)

```

```

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

```

```

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

; This should promote

```

; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>
%arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
bb:
    %tmp = load <8 x i64>,
    <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>
%arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8
x i64>* %arg) #3 {
bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

```

```
; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256"
"prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
```

---

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=x86\_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}
```

define

```
void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:      # %bb.0:
```





```

}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr)
  "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr,
<64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %x = load <64 x i8>, <64 x i8>* %xptr
  %y = load <64 x i8>, <64 x i8>* %yptr
  %cmp = icmp ult <64 x i8> %x, %y
  %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
  %res = sub <64 x i8> %max, %y
  store <64 x i8> %res, <64 x i8>* %zptr
  ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0,
(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3,
%ymm5, %ymm3
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpslufd {{.*#+}} xmm1 = xmm0[2,3,0,1]

```

```

; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd { {. *#+ } } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

```

entry:

```

%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32>
[ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

```

```

%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20,
i32 0
ret i32 %13
}

```

```

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
;
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

```

```

vector.body:

```



```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1,
%rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector
<32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

@a = global [1024 x i8] zeroinitializer, align 16

@b = global [1024 x i8] zeroinitializer, align 16

```
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
```

```
; CHECK-LABEL: sad_16i8_256:
```

```
; CHECK:      # %bb.0: # %entry
```

```
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
```

```
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
```

```
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
```

```
; CHECK-NEXT: .p2align 4, 0x90
```

```
; CHECK-NEXT: .LBB10_1: # %vector.body
```

```
; CHECK-NEXT: # =>This Inner Loop Header:
```

```
Depth=1
```

```
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
```

```
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
```

```
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
```

```
; CHECK-NEXT: addq $4, %rax
```

```
; CHECK-NEXT: jne .LBB10_1
```

```
; CHECK-NEXT: # %bb.2: # %middle.block
```

```
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
```

```
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
```

```
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
```

```
; CHECK-NEXT: vpshufd { {.*#+} } xmm1 = xmm0[2,3,0,1]
```

```
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
```

```
; CHECK-NEXT: vpshufd { {.*#+} } xmm1 = xmm0[1,1,2,3]
```

```
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
```

```
; CHECK-NEXT: vmovd %xmm0, %eax
```

```
; CHECK-NEXT: vzeroupper
```

```
; CHECK-NEXT: retq
```

```
entry:
```

```
br label %vector.body
```

```
vector.body:
```

```
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
```

```
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
```

```
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
```

```
%1 = bitcast i8* %0 to <16 x i8>*
```

```
%wide.load = load <16 x i8>,
```

```
<16 x i8>* %1, align 4
```

```
%2 = zext <16 x i8> %wide.load to <16 x i32>
```

```
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
```

```
%4 = bitcast i8* %3 to <16 x i8>*
```

```
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
```

```
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
```

```
%6 = sub nsw <16 x i32> %2, %5
```

```
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
```

```
%8 = sub nsw <16 x i32> zeroinitializer, %6
```

```

%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

```

middle.block:

```

%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement
<16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]

```

```

; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd { {. *#+ } } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1,
%xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32>
%6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

```

```

%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

```

```

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask
= icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvt dq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvt dq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0

```

```

;
CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:   vpmovm2d %k0, %ymm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:   vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:   vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:   vmovaps %ymm3, (%rdi)
; CHECK-NEXT:   vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:   vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:   vpmovw2m %ymm0, %k0
; CHECK-NEXT:   vpmovm2d %k0, %zmm0
; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:   vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:   vmovaps %zmm1,
(%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:   vpmovw2m %ymm0, %k0
; CHECK-NEXT:   kshiftrw $8, %k0, %k1
; CHECK-NEXT:   vpmovm2d %k1, %ymm0
; CHECK-NEXT:   vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:   vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:   vpmovm2d %k0, %ymm1
; CHECK-NEXT:   vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:   vcvtdq2ps %ymm1, %ymm1

```

```

; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16>
%a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld
$31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper

```

```

; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:  vcvt dq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvt dq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:
    vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vcvt tps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvt tps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16>

```



```

%passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask =
fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:

```

```

; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpunpckhbw
  {{.*#+}} ymm4 =
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13
],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ym
m0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13
],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ym
m0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-NEXT:  vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm3 =
ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[
5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[
19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
;
CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm1 =
ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[
5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[
19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT:  vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm3 =
ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13
],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ym
m0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
;
CHECK-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT:  vpand %ymm5, %ymm3, %ymm3
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm2 =
ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[
5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[
19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT:  vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]

```

```

; CHECK-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>*
%c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: mul512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],zmm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],zmm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;
; CHECK-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vmovdqa64 {{.*#+}} %zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-NEXT: vpunpcklbw {{.*#+}} %zmm1 =
zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19],zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-NEXT: vpunpcklbw {{.*#+}}
zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]

```

```

; CHECK-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

; This threw an assertion at one point.

```

define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:      # %bb.0:
; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT: vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT: retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4
x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

```

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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
```

```
declare fp128 @llvm.fabs.f128(fp128)
```

```
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK      movaps 16(%rsp), %xmm1
; CHECK-NEXT  callq __subtf3
; CHECK-NEXT  testl %ebx, %ebx
; CHECK-NEXT  jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT  movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT  addq $32, %rsp
; CHECK-NEXT  popq %rbx
; CHECK-NEXT  retq
}
```

```

define fp128 @TestFabs(fp128 %a) {
    %res = call fp128 @llvm.fabs.f128(fp128 %a)
    ret fp128 %res
; CHECK-LABEL: TestFabs:
;
    CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fmul fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

# 1.689 open-vm-tools 11.0.1 r0

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Version 2.1, February 1999

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>>> freebsd-base64-4.8

>>>

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base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> unicode-5.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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perks - a fork of <https://github.com/bmizerany/perks>  
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Support for streaming Protocol Buffer messages for the Go language (golang).  
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## 1.691 python3-pnp 3.0.0.dev2 r0

### 1.691.1 Available under license :

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- \* /opt/cola/permits/1218114308\_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/exec\_log.py
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[bdist\_rpm]

release = 1

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packager = Network Plug-n-Play <pnp-dev@cisco.com>
doc_files = README.rst
no-autoreq = 1
post-install = pnp/data/cfg/post_install_rpm.sh
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binary-only = 1
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keep-temp = 1
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[egg_info]
tag_build =
tag_date = 0
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Found in path(s):

```
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg
```

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.2

Name: pnp

Version: 3.0.0.dev2

Summary: Plug-n-Play Agent for Cisco Network-PnP

Home-page: <https://developer.cisco.com/site/open-plug-n-play/>

Author: Network Plug-n-Play

Author-email: pnp-support@cisco.com

License: Cisco Proprietary

Description: UNKNOWN

Keywords: posix pnp agent plug-n-play client

Platform: UNKNOWN

Classifier: Operating System :: POSIX :: Linux

Classifier: Programming Language :: Python :: 3.6

Requires-Python: >=3.6

Found in path(s):

```
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/PKG-INFO
```

```
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO
```

No license file was found, but licenses were detected in source scan.

```
license='Cisco Proprietary',
```

Found in path(s):

```
* /opt/cola/permits/1218114308_1634894265.23/0/pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/setup.py
```

## 1.692 pyyaml 5.3.1 r0

## 1.692.1 Available under license :

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## 1.693 libxml 2.9.9 r0

### 1.693.1 Available under license :

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