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* /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

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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)
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- 0.33

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- Add /tftpboot directory (#88204)

- * Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
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 - don't let configure to guess compiler, it can pick up eggs

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 - default to being disabled

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 - compress man pages (again).
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 - 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.in

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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.

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/* ----- *
*
* 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

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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/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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/*

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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
```

1.4 yajl 2.1.0 r0

1.4.1 Available under license :

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Preamble

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```

```
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```
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1.7 sfdisk 2.25.2 r0

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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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1.8 zlib 1.2.11 r0

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1.9 libmnl 1.0.4 r0

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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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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

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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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a) Accompany

the work with the complete corresponding

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That's all there is to it!

1.10 bridgeutils 1.6 r0

1.11 dosfs-tools 4.1 r0

1.11.1 Available under license :

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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

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The

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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: */
```

1.15 traceroute 2.1.0 r0

1.15.1 Available under 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.)

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1.16 which 2.21 r3

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1.18 tipccconfig 2.0.6 r0

1.19 python3-pycrypto 2.6.1 r0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release from	Derived from	Year	Owner	GPL-compatible? (1)
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	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		
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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,

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```
=====
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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.
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--amk (www.amk.ca)

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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?

```
=====
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 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=;

b=gyTqkRhKIHadFKIZCBWsRbnMNVdQ1PWlJbyC0EvxPskaoHr3HAR96MWQNBePu/40Ac

Vn55qllqTdom4e9zIUUE6MwZo9kqi/Qw0L/SLib0DIQeNqo/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/>.

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?
>
> =C2=A0=3D=
=3D=
=3D=
> =C2=A0The contents of this file are dedicated to the public domain. =C2=
=A0To the
> =C2=A0extent that dedication to the public domain is not available, every=
one
> =C2=A0is granted a worldwide, perpetual, royalty-free, non-exclusive lice=
nse
> =C2=A0to exercise all rights associated with the contents of this file fo=
r
> =C2=A0any purpose whatsoever. =C2=A0No rights are reserved.
> =C2=A0=3D=

>
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>> 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. 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".)

=====
Distribute and use

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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)

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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 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;
b=F2h2bFzpQxyKFZ8BhenniyupGw4Zvlekb9BSk91qKU+51W/TkSGBij5YZIhkLQdkQk0qLz5f4g8dT6bOME3s
EY1j10hlx0K0u2UD0yoYTINBCmsdMQRoJ7ph9bmt+p/EJhRpe+FiV6aoLV0FONWiHfGDghPT1dulWXfVTqgB
2aU=
DomainKey-Signature:a=rsa-sha1; q=dns; c=noaws;
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.i.JkIAKUHSFsFn7t9PbtewAewXJ2uhZGCOIGCX6oVnG3u.CgqzAffY
4vZSnfTT8wnCkzZNZ_g6k.XUc3ipo_6e.92TXl4p8MxDGAf1tpNF5nXPwcQ7aREs7jGoWWWJYVyp50clsUFS
Hzf7Zbpa8P1Yoe_xSzf3OAgRSh5fCrbFCC8sHPCuwrL3YhasbtHmkWffteSS.x6gEcBaxf03oz4FeDb5mpJ54g11X
onq8h_TmzX9g84Bin9g_3fJ4WSXm6g6.tohLyfXcUxoz4j036wyWpTKPrWEzIUQaN83Sv_bj_Ghx--
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. Litzberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzberger <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,

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>

>

> =====

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>

> =====

>

> Incorporating the code into commercial

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>
> --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.
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>> (www.amk.ca)

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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
>>
>
--

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 (tmdb-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. Litzenberger" <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/aq2fi/HNjyrwnqFnUI0uqwpOrQGbz8Y+SGpVh1gKqy1Ju45L+doq
sxbzCOpgRv2zDdNR/2SnFmDWQXv8dSeonwIHpQDft8/LVA/gHiTDmteQIOhJQ6o
XYhY+HbRjsD741/GSpOt9Iln5ln0UgshFoLIndnNSAvWf4aPyh5KCN7ho+/BC0v/
W/pqSSiPkwmblPHoOltTkNc0qKLAHXqMGJNhO8AkrYZOyJksb0HsA==
=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

FektbDOzKxgc5580MGGeX/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 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
on the point of whether distributing modified versions is allowed. (It=20
says "distribute and use", but not "modify".)

=3D=
=3D=
=3D=

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.

=3D=
=3D=
=3D=

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'd like to take steps to move toward a clearer licensing regime. I'm asking as many copyright holders as I can find, starting with you, 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.

May I, on your behalf, dedicate to the public domain your considerable 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.

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 <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. Litzenger" <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. Litzenger <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 ESMTMP 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 ESMTMP 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/ksRqukHwaOZyJQBUs4Yvt5mI20U6mI/g=;

b=oMjI22IIxYiJKge2zNjW3rRiUi9LqFXmey5Wp0pLItuNF+X3duyfhopTuBAKw7MwVY
B5E6VQuGVEyzBbNscTyVgq6DhQiQtouCLZymSViobmuDmKn5DtUKoxpDk0xCxQmHYaas
L9/A6D3/J66kKrNBgX9mc0GPcZTviVFYkPR0Q=

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

d=gmail.com; s=gamma;

h=mime-version:in-reply-to:references:date:message-id:subject:from:to

:content-type;

b=Ym7CStuDEfJKay1AJyWZkZmJA1lnTcwCG6akBHAXLld8ht6PFcmIsffzZG8hJCIVJ8
vljqcT+G6cywVTBw1pyGX7ECYzr0+vhGvgdpACGrS24zikHfpSSd5GFogzXaLVvGVH8p
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. Litzenger" <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
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> I, on your
> behalf, dedicate to the public domain all your contributions to PyCrypto,
> with the following notice?
>
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> 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
>

--
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'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@jeethu-rao.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

<dlitz@dlitz.net

=A0 =A0 =A0Key-signing key =A0 - 19E1 1FE8 B3CF F273 ED17 =A04A24 928C EC1=
3 39C2 5CF7

</blockquote></div>
<br clear="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. Litzenger" <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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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.

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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 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: (vmmailgr-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:

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Regards,  
Joris

Citeren  
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```
>
>
>
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>  
> --  
> 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  
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> Joris

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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

>  
>

--

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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=====
```

Regards,  
- Dwayne

--

Dwayne C. Litzenger <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. Litzenger <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. 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  
evkInSJQAcVHIZnVIVeR5IXgvDUMakZjU4SOV7MqkhsKA9Ilet7PaD9VSYgn3ra5  
gElwI2DQDoOy5GEXMm74gqrrb1PCCbCrmpaYNo+DZohwHkeFBjbwDRA3wItOrH7  
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:

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> toward a clearer licensing regime. I am asking as many copyright  
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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  
SH8AoLJgaq1Ili7/ZYDc+/Cd8VO0xLbr  
=Mv6g

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00INDEX This file

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# 1.20 tcp-wrappers 7.6 r10

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## 1.24 bzip2 1.0.8 r0

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Julian Seward, [jseward@acm.org](mailto:jseward@acm.org)  
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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## 1.25 tar 1.32 r0

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## 1.26 ipcalc 0.2.3 r0

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include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
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man/fgetln.3bsd  
man/fgetwln.3bsd  
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man/strmode.3bsd  
man/strnstr.3bsd  
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man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
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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

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src/getentropy\_linux.c

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## 1.29 gdbm 1.18.1 r0

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<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.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.  
<http://www.lua.org/>
- 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.  
<http://www.openssl.org/>
- o LIBLINEAR. Used for IPv6 OS classification.  
<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>
- o libsvn. The Subversion library, used by the updater program nmap-update. <http://subversion.apache.org/>
- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- 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.  
<http://www.winpcap.org/>

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:

- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.

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

The Windows and Mac OS X binary packages include bundled versions of:

- o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.

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

- o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.

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

- o libgailutil: Accessibility support for GTK+.

- o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

<http://www.libpng.org/> <http://www.iijg.org/> <http://www.libtiff.org/>

- o zlib and bzip2: compression libraries.

<http://www.zlib.org/> <http://www.bzip.org/>

- o Expat: XML parser library.

<http://expat.sourceforge.net/>

- o fontconfig: font configuration library.

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

- o FreeType: font rendering library.

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

- o libiconv. Under the GNU LGPL 2.

<http://www.gnu.org/software/libiconv/>

- o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.

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- o libxml2: XML parsing library.

<http://xmlsoft.org/>

- o SQLite.

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

- o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.

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

- o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:

- o Various X.org libraries. These were built using MacPorts.

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## THE BASIC LIBRARY FUNCTIONS

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Written

by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

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-----

Written by:    Philip Hazel  
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## 1.37 diffutils 3.7 r0

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## 1.39 gzip 1.10 r0

### 1.39.1 Available under license :

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The

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<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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</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: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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```

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```
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J. Bruce Fields <bfields@umich.edu>
```

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## 1.42 sshpass 1.06 r0

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,  
Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>



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Any

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## 1.48 pynacl 1.4.0

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## 1.53 pcre 8.42

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
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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

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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,

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# 1.55 libcap-ng 0.7.9

## 1.55.1 Available under license :

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Version 2.1, February 1999

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## 1.58 kerberos 1.18.2

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
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lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
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lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c

lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c



lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
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lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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kprop/kpropd\_rpc.c  
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```

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```

```
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```

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```

```
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Ty Coon, President of Vice
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## 1.60 platform-python-pip 9.0.3

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```

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

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

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

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

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

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

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

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

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## 1.67 dnf 4.4.2

### 1.67.1 Available under license :

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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_cfg\_parser.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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ctrl\_sm.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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ctrl.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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ring.zn

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
*
* 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_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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_ctrl.sm

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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io.c

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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io\_pak.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/1267355810_1647465320.9/0/dnf-tar/src/erp_ridb.c
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/1267355810_1647465320.9/0/dnf-tar/src/erp_debug.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/1267355810_1647465320.9/0/dnf-tar/src/erp_pd_caps_stubs.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/1267355810_1647465320.9/0/dnf-tar/src/erp_ctrl_ha.c
No license file was found, but licenses were detected in source scan.
```

```
/*
*-----
* erp_common.c - ERP common code
*
* July 2010, Viet Nguyen
*
* Copyright (c) 2010-2011 by cisco Systems, Inc.
* All rights reserved.
*-----
*/
```

Found in path(s):

```
*/opt/cola/permits/1267355810_1647465320.9/0/dnf-tar/src/erp_common.c
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/1267355810_1647465320.9/0/dnf-tar/src/erp_pdb.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/1267355810\_1647465320.9/0/dnf-tar/src/erp\_io.sm

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
*
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*-----
*/

```



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\*-----

\* erp\_io\_sm.c

\* G.8032 ERP IO state machine

\*

\* July 2010, Viet Nguyen

\*

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## 1.68 libzstd 1.4.4

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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.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny

Bates, Tom  
Behan, Zdenk  
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  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick

Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin



Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo

Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

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,  
Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove

Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

## 1.70 sed 4.5

### 1.70.1 Available under license :

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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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(at your option) any later version.
```

```
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```

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```

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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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## 1.71 cracklib 2.9.6

### 1.71.1 Available under license :

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

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This package was debianized by Jean Pierre LeJacq <jplejacq@quoinc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

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

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

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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...)

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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:

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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=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

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Re: [Cracklib-devel] cracklib license

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

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Devin

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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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

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Re: [Cracklib-devel] cracklib license

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Attachments: Message  
as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
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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.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.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 I91Gxtpr020623

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

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

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

[Cracklib-devel] cracklib license

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

Attachments: Message as HTML

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

Re: [Cracklib-devel] cracklib license

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

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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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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:

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-----  
From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.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 191Gxtp020623

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

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- > email
- > in the repository and clean up the repository/tarballs? I have all the
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- > would be
- > ideal.

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

Happy now? :-)

-a

## 1.72 libsemanage-common 2.9

### 1.72.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

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.

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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 such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

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## 1.73 python-setuptools 39.2.0

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Any executables

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## 1.75 libcom-err 1.45.6

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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) $(LD_FLAGS_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)
```

```
@-$(LD_CONFIG)
```

```
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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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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```
<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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```

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```
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```

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Theodore Ts'o  
23-June-2007



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Version 2, June 1991

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```

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision
```

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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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Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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section 10

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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

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**** Platform-dependent defines.
*****/

/**
*** Network.
****/

/*
 * Define if this system needs the <netinet/in6.h> header file included
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 */
```

@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@

/\*

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\*/

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\*/

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@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_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/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/platform.h.in
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Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h  
\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irp\_p.h

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\*  
\* @(#)cdefs.h 8.7 (Berkeley) 1/21/94  
\*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h  
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\*  
\* BINOS specific changes to associate memcluster with an evctx  
\*  
\* March 2014,  
\* Aswin Kuppusami  
\*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/memcluster\_binoc  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/memcluster\_p.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>

<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 <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>
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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;

`lwres_gabnrequest_t` &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;

`lwres_gabnresponse_t` &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>,&br/><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>  
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</refentry>

#### Found

in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gabn.docbook

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- \*/

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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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```

```
*/
```

```
/*
```

```
* SHA-1 in C
* By Steve Reid <steve@edmweb.com>
* 100% Public Domain
*
* Test Vectors (from FIPS PUB 180-1)
* "abc"
* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
* "abcdbcdecdefdefgefghfghighijhijkijkljklmklmnlmnomnopnopq"
* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"
* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/sha1.c
```

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```

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```
.\" $Id: logging.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]
.\" 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
```

.\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 .Sh 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

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/logging.mdoc

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\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/parseint.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/syslog.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irp\_ng.c  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irp.c  
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.\"  
.\" \$Id: lwres\_packet.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
.\"

Found

in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_packet.3  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/resolver.c  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cert\_37.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/message.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/zone.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/ncache.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/adb.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/cache.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/dispatch.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/view.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/net.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/net.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/dnssec.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nxt\_30.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/master.c  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sig\_24.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/interface.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/sockaddr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/log.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/types.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey\_249.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rbt.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/loc\_29.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/message.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/app.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/net.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/tests/t\_api.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/db.h  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/getipnode.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/dispatch.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/xfrin.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/net.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/zone.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/key\_25.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdataslab.c

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ifiter_sysctl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/any_255/tsig_250.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/masterdump.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ifiter_ioctl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdataset.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/view.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/adb.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdataset.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/a6_38.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/random.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 */
```

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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/platform.h.in
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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/rwlock.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/rwlock.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/time.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mx_15.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/task.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/time.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/base64.c
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/bsd/daemon.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/bsd/strsep.c  
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Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/string.c  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/log.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/srv\_33.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdatalist.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/log.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/resolver.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/tkey\_249.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/print.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/nsec.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/print.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rt\_21.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/naptr\_35.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/db.c  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/keyvalues.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/nsec.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/px\_26.c

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/afbdb_18.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/tkey.c
```

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Found in path(s):

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/lcl_ng.c
```

```
*
```

```
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_print.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gethostent.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/logging.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_p.h
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_gr.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_nw.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_ntop.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_update.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/lcl.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/logging.h
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_gr.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getgrent.c
```

```
*
```

```
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/logging_p.h
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/nsap_addr.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_mkupdate.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen.c
```

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Found in path(s):

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cert_37.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/ttl.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/ipv6.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/gen-unix.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dbiterator.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/once.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/mutexblock.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/lib.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/tcpmsg.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/px_26.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/ipv6.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/wks_11.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rcode.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/serial.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.h
*

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/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/secalg.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/taskpool.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/loc_29.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/stdtime.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/fixedname.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/isdn_20.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/dir.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/rdatastructsuf.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwpacket.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/dbtable.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/serial.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbtdb64.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sig_24.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/pthreads/include/isc/once.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/app.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/cert.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst_lib.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/callbacks.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dname_39.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/base64.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdatasetiter.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dname_39.c

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/bitstring.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/key.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/int.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rp_17.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/stdtime.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rp_17.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/lib.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/dir.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/generic/x25_19.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/random.h
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/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/syslog.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/commandline.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/stdtime.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/dbiterator.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata/hs_4/a_1.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/msgcat.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/dir.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nls/msgcat.c
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/lib.h
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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/tcpmsg.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/tests/include/tests/t_api.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/resultclass.h
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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>
</funcsynopsis>
</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>  
<citrefentry>  
<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3  
</manvolnum>  
</citrefentry>  
translates these error codes to suitable error messages.  
</para>  
</refsect1>  
<refsect1>  
<title>SEE ALSO</title>  
<para>  
<citrefentry>  
<refentrytitle>RFC2553</refentrytitle>  
</citrefentry>,  
  
<citrefentry>  
<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>,</div>
<div data-bbox="147 85 250 99" data-label="Text"><citrefentry></div>
<div data-bbox="147 102 680 117" data-label="Text"><refentrytitle>lwres\_gethostent</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 120 259 134" data-label="Text"></citrefentry>,</div>
<div data-bbox="147 156 250 171" data-label="Text"><citrefentry></div>
<div data-bbox="147 173 688 188" data-label="Text"><refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 191 259 206" data-label="Text"></citrefentry>,</div>
<div data-bbox="147 228 250 242" data-label="Text"><citrefentry></div>
<div data-bbox="147 245 696 260" data-label="Text"><refentrytitle>lwres\_getnameinfo</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 263 259 277" data-label="Text"></citrefentry>,</div>
<div data-bbox="147 299 250 313" data-label="Text"><citrefentry></div>
<div data-bbox="147 315 668 330" data-label="Text"><refentrytitle>lwres\_hstrerror</refentrytitle><manvolnum>3</manvolnum></div>
<div data-bbox="147 333 259 348" data-label="Text"></citrefentry>.</div>
<div data-bbox="147 351 207 366" data-label="Text"></para></div>
<div data-bbox="147 368 230 383" data-label="Text"></refsect1></div>
<div data-bbox="147 386 230 401" data-label="Text"></refentry></div>
<div data-bbox="147 422 197 436" data-label="Text">Found</div>
<div data-bbox="151 439 227 455" data-label="Text">in path(s):</div>
<div data-bbox="147 457 819 473" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getipnode.docbook</div>
<div data-bbox="147 475 613 490" data-label="Text">No license file was found, but licenses were detected in source scan.</div>
<div data-bbox="147 511 637 562" data-label="List-Group"><ul style="list-style-type: none;"><li>- Permission to use, copy, modify, and distribute this software for any</li><li>- purpose with or without fee is hereby granted, provided that the above</li><li>- copyright notice and this permission notice appear in all copies.</li></ul></div>
<div data-bbox="147 582 269 597" data-label="Text">Found in path(s):</div>
<div data-bbox="147 600 756 615" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gabn.html</div>
<div data-bbox="147 617 743 633" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres.docbook</div>
<div data-bbox="147 635 832 650" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook</div>
<div data-bbox="147 652 803 668" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.html</div>
<div data-bbox="147 670 829 686" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.html</div>
<div data-bbox="147 687 803 703" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html</div>
<div data-bbox="147 705 779 721" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_inetntop.html</div>
<div data-bbox="147 723 807 739" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook</div>
<div data-bbox="148 741 163 754" data-label="Text">\*</div>
<div data-bbox="147 760 748 775" data-label="Text">/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gnba.html</div>
<div data-bbox="147 777 784 793" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook</div>
<div data-bbox="147 795 793 811" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gethostent.html</div>
<div data-bbox="147 812 782 828" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_hstrerror.html</div>
<div data-bbox="147 830 808 846" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html</div>
<div data-bbox="147 848 785 864" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_noop.docbook</div>
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<div data-bbox="147 883 810 899" data-label="Text">\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_hstrerror.docbook</div>
<div data-bbox="195 942 501 959" data-label="Page-Footer"><hr/>Open Source Used In cBR-8-RM 17.9.1y1 1104</div>



\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_buffer.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getipnode.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_noop.html  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_packet.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_context.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_resutil.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_config.html  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_packet.docbook  
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\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_findzonecut.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/irp.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_debug.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/un.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/irpmarshall.h

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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/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getrrsetbyname.docbook

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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.
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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.
*
* 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):

```
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/md5.h
```

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in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix32/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware212/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/sunos/include/sys/cdefs.h

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.\"

.\" \$Id: lwres\_getipnode.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found

in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getipnode.3

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.\" $Id: lwres_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_resutil.3
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Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/res_update.h
```

```
*
```

```
 /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_sign.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_verify.c
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/events.h  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/log.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/aaaa\_28.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/x25\_19.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rdataslab.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/ratelimiter.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/tsig.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/lfsr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/nsap\_22.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/isdn\_20.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nxt\_30.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/compress.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/dnssec.h  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/ipv6.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/journal.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/gpos\_27.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/netaddr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/unspec\_103.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/hs\_4/a\_1.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/master.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/callbacks.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rbt.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/ratelimiter.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/tsig.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/acl.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/in\_1/wks\_11.c  
\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/zt.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/masterdump.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/acl.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/ncache.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rootns.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/zt.c

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*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/sockaddr.h
*/
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/lex.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/result.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/gen.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdata.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/rdata.h
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/socket.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/time.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/name.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rcode.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/task.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/types.h
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/result.h
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/name.h
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/types.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/symtab.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/base64.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/symtab.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/ccmsg.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/events.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/ccmsg.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/lib.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/sexpr.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/alist.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/symtype.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/alist.h

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/sexpr.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/lib.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/util.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/base64.h

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\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccfg/include/isccfg/grammar.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/ds.c

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<!-- \$Id: lwres\_context.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

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<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>

<funcsynopsis>

<funcsynopsisinfo>#include <lwres/lwres.h></funcsynopsisinfo>

<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>
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<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>
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</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>  
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\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irp\_pw.c  
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/\*  
\* msg\_eventlib.c - Error messages for evlib  
\*  
\* January 2007, Vikram Visweswaraiah  
\*  
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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/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mf\_4.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mx\_15.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mf\_4.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cname\_5.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/cname\_5.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/eventclass.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/win32/version.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/time.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/version.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/win32/version.c

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/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/ns\_2.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/txt\_16.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/rdatatype.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/mb\_7.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/thread.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/version.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/error.c  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/mutex.h  
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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/minfo\_14.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/1wres/win32/version.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.h

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/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/symtab.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/inet\_ntop.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/symtab.h  
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.\n \$Id: lwres\_noop.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$\br/>.\n

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/ansi\_realloc.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/memcluster.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/assertions.c

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<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">

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-->

<!-- \$Id: lwres\_gethostent.docbook,v



```
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<refentryinfo>
<date>Jun 30, 2000</date>
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<manvolnum>3</manvolnum>
<refmiscinfo>BIND9</refmiscinfo>
</refmeta>

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<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>
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struct
hostent *
<function>lwres_gethostbyname2</function></funcdef>
<paramdef>const char *name</paramdef>
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<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>
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</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>lwres\_sethostent()</function>,  
<function>lwres\_endhostent()</function>,  
<function>lwres\_gethostent\_r()</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  
<function>lwres\_gethostbyname2()</function> look up the hostname  
<parameter>name</parameter>.  
<function>lwres\_gethostbyname()</function> always looks for an IPv4  
address while <function>lwres\_gethostbyname2()</function> looks for an  
address of protocol family <parameter>af</parameter>: either  
<type>PF\_INET</type> or <type>PF\_INET6</type> &mdash; IPv4 or IPV6  
addresses respectively. Successful  
calls of the functions return a  
<type>struct hostent</type> for the name that was looked up.  
<type>NULL</type> is returned if the lookups by  
<function>lwres\_gethostbyname()</function> or  
<function>lwres\_gethostbyname2()</function> fail.  
</para>

<para>  
Reverse lookups of addresses are performed by  
<function>lwres\_gethostbyaddr()</function>.  
<parameter>addr</parameter> is an address of length  
<parameter>len</parameter> bytes and protocol family  
<parameter>type</parameter> &mdash; <type>PF\_INET</type> or  
<type>PF\_INET6</type>.  
<function>lwres\_gethostbyname\_r()</function> is a thread-safe function  
for forward lookups. If an error occurs, an error code is returned in  
<parameter>\*error</parameter>.  
<parameter>resbuf</parameter> is a pointer to a <type>struct  
hostent</type> which is initialised by a successful call to  
<function>lwres\_gethostbyname\_r()</function> .  
<parameter>buf</parameter> 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\_gethostbyname\_r()</function> return <parameter>resbuf</parameter>, which is a pointer to the <type>struct hostent</type> it created.

<para>  
<function>lwres\_gethostbyaddr\_r()</function> is a thread-safe function that performs a reverse lookup of address <parameter>addr</parameter> which is <parameter>len</parameter> bytes long and is of protocol family <parameter>type</parameter> &mdash; <type>PF\_INET</type> or <type>PF\_INET6</type>. If an error occurs, the error code is returned in <parameter>\*error</parameter>. The other function parameters are identical to those in <function>lwres\_gethostbyname\_r()</function>. <parameter>resbuf</parameter> is a pointer to a <type>struct hostent</type> which is initialised by a successful call to <function>lwres\_gethostbyaddr\_r()</function>. <parameter>buf</parameter> 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.

</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>:

<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>

<citerefentry>

<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>lwres\_getipnode</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,&br/>

<citerefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3

</manvolnum>

</citerefentry>

</para>

</refsect1>

<refsect1>

<title>BUGS</title>

<para>

<function>lwres\_gethostbyname()</function>,&br/><function>lwres\_gethostbyname2()</function>,&br/><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/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_gethostent.docbook

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<!-- \$Id: lwres\_resutil.docbook,v  
1.1 2004/11/03 01:39:06 abstine Exp \$ -->

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<refentryinfo>

<date>Jun 30, 2000</date>

</refentryinfo>

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<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 &lt;lwres/lwres.h&gt;</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_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.

`<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 `<citrefentry>lwres_gabn</refentrytitle><manvolnum>3</manvolnum></citrefentry>` functions.

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 `LWRES_ADDRTYPE_V4` for IPv4 addresses and `LWRES_ADDRTYPE_V6` for IPv6 addresses. Results of the lookup are returned in `*structp`.

`lwres_getnamebyaddr()` performs reverse lookups. Resolver context `ctx` is used for memory allocation. The address type is indicated by `addrtype`: `LWRES_ADDRTYPE_V4` or `LWRES_ADDRTYPE_V6`. The address to be looked up is given by `addr` and its length is `addrlen` bytes. The result of the function call is made available through `*structp`.

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

`lwres_string_parse()`

and

`lwres_addr_parse()`

return

`LWRES_R_SUCCESS`.

Both

functions return

`LWRES_R_FAILURE`

if the buffer is corrupt or

`LWRES_R_UNEXPECTEDEND`

if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>

`lwres_getaddrbyname()`

returns

`LWRES_R_SUCCESS`

on success and it returns

`LWRES_R_NOTFOUND`

if the hostname

`name`

could not be found.

</para>

<para>

`LWRES_R_SUCCESS`

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>,&br/></para>

<citerefentry>

<refentrytitle>lwres\_gabn</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

Found in path(s):

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\*

\*/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_data.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_gr.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_gr.c

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_nw.c

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.\\"
.\\" $Id: lwres_getnameinfo.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\\"
```

Found

in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_getnameinfo.3
```

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Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irp_nw.c
```

```
*
```

```
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irp_sv.c
```

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irp_ho.c
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.\\" $Id: tree.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/byaddr.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/diff.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/entropy.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/opensslrsa\_link.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/byaddr.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/socket.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/entropy.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/hex.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/messages.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/getrrset.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/validator.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/iscconf/parser.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/lwconfig.c

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.\$Id: memcluster.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp $
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```
.\"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
```

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.\" $Id: lwres_gethostent.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

.

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Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/request.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/gssapi_link.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/unix/include/lwres/net.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/cfg/include/isc/cfg/cfg.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/threads/mutex.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/errno2result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/entropy.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/os.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/file.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ipv6.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/fsaccess.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_gnba.c
No license file was found, but licenses were detected in source scan.
```

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.\ "
.\ " $Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\ "
```

Found

in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_buffer.3
No license file was found, but licenses were detected in source scan.
```

/\*

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 \*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irpmarshall.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.

)

```
;;  
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=threads
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
*-bsd4.[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_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 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(sterror,
[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(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_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 spti"
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);
]

```

```

”
[
INETGR_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);
]
”
[
INETGR_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 *);
]
”
[
SETNETGREN_ARGS="#undef SETNETGREN_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/1267355108_1647467424.26/0/lib-tar/lib/bind/configure.in
```

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

```
/*
```

```
* eventlib.em
```

```
*
```

```
* Eventlib error message compiler input file
```

```
*
```

```
* Copyright (c) 2008-2011 by Cisco Systems, Inc.
```

```
* 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/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.em

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/\*

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\*/

Found

in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/result.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isccc/include/isccc/result.h

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/\*-----

\* eventlib definitions specific to binos

\*

\* January 2007, Vikram Visweswaraiah

\*

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/\*-----

\*/

Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/include/isc/eventlib\_defs.h

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```
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.\" PERFORMANCE OF THIS SOFTWARE.
.\"
.\" $Id: lwres_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_context.3
```

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

```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

```
- Copyright (C) 2004 Internet Systems Consortium, Inc. ("ISC")
```

```
- Copyright (C) 2001, 2003 Internet Software Consortium.
```

```
-
```

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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>
</funcsynopsis>
```

```
<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()</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>.  
</para>

<para>  
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>,

<citerefentry>

<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>RFC2133</refentrytitle>

</citerefentry>,

<citerefentry>

<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>  
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<div data-bbox="147 103 619 153" data-label="Text"><p><citerefentry>  
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>  
</citerefentry>,</p></div>
<div data-bbox="147 175 610 225" data-label="Text"><p><citerefentry>  
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>  
</citerefentry>,</p></div>
<div data-bbox="147 246 625 296" data-label="Text"><p><citerefentry>  
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>  
</citerefentry>,</p></div>
<div data-bbox="147 316 609 385" data-label="Text"><p><citerefentry>  
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>  
</citerefentry>.  
</para></p></div>
<div data-bbox="147 405 230 437" data-label="Text"><p></refsect1>  
</refentry></p></div>
<div data-bbox="147 458 198 472" data-label="Section-Header"><h4>Found</h4></div>
<div data-bbox="151 476 227 491" data-label="Text"><p>in path(s):</p></div>
<div data-bbox="147 493 830 525" data-label="Text"><p>\*/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.docbook  
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<div data-bbox="147 865 712 895" data-label="Text"><p>\*/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getpwent\_r.c  
\*</p></div>
<div data-bbox="195 943 501 959" data-label="Page-Footer"><p>Open Source Used In cBR-8-RM 17.9.1y1 1236</p></div>

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gethostent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getnetgrent\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getservernt\_r.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getgrent\_r.c  
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\*

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/win32os.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst\_parse.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

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```

/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/forward.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/timer_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/hmacmd5.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/resource.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/rdatalist_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_grbn.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/gai_strerror.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/file.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/int.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/fsaccess.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/forward.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/int.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/errno2result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_noop.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lang.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/sdb.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/quota.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/offset.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/ondestroy.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/stats.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/keyboard.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/thread.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/ondestroy.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/once.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/keyboard.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/condition.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/stdio.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/entropy.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/win32/bindevt/bindevt.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ntpaths.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/errno2result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/lookup.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/ipv6.h

```

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/mutex.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/unistd.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/condition.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/net.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwbuffer.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/gssapictx.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/socket_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/stdio.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/resource.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/resource.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwpacket.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/stats.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/context_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/keyboard.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/context.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/lwres.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/keytable.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/timer.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/fsaccess.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/hmacmd5.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/assert_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/formatcheck.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/netdb.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/stdio.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/version.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/keytable.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/lwres_gabn.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/hex.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/fsaccess.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/offset.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/bit.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/gethost.c

```

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.\" \$Id: eventlib.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nsec\_47.h

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/stat.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/ifiter\_getifaddrs.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/nsec\_47.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/stdlib.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/hash.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/portlist.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.c

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/portlist.h

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.\" \$Id: lwres\_config.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_config.3

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Found in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/hex.c

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gai\_strerror.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/platform.h

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/win32/DLLMain.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/ntpaths.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/version.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/include/bind9/check.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/unix/include/isc/sterror.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/win32/DLLMain.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/include/lwres/version.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/version.c

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/include/bind9/getaddresses.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/version.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind9/include/bind9/version.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/version.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/ntgroups.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/version.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/bindevt.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/DLLMain.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/sterror.h

\*

```
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/include/dns/zonekey.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/sterror.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/win32/DLLMain.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isccfg/log.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/dns/sec/dst/key.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/unix/syslog.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
```

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_send.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/resolv/res\_init.c

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.\ " \$Id: heap.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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.\"

.\"Os

OPERATING\_SYSTEM [version/release]

.\" 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)

.\" 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/1267355108\_1647467424.26/0/lib-tar/lib/bind/isc/heap.mdoc

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/md5\_dgst.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/md5\_loc1.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/md5.h

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* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/sha1.h
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.\" $Id: lwres_gai_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"

```

Found

in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/man/lwres_gai_strerror.3
```

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Found in path(s):

```
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/assertions.c
*
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/assertions.h
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/heap.h
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/include/isc/mem.h
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/isc/heap.c
*/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/lwres/include/lwres/list.h
```

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sec/dst/dst\_api.c

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_ho.c

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getservent.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getprotoent.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/openbsd/include/sys/bitypes.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/dns\_sv.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/lcl\_p.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_net\_ntop.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/pathnames.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_neta.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/hpux9/include/sys/bitypes.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nul\_ng.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/unixware20/include/sys/bitypes.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/bsdos/include/sys/bitypes.h

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/getnetgrent.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/irs\_p.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/hesiod\_p.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/hesiod.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_ng.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/cygwin/include/sys/bitypes.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/nis\_pr.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/irs/gen\_nw.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h

```

* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/next/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/bitncmp.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_pw.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_parse.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/irs.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_net_pton.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sunos/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_pr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_pton.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/aix32/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_netint.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/unixware212/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_pw.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/util.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/freebsd/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irs_data.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_ho.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_name.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_ng.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/irs_data.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_p.h
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/ultrix/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_sv.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getnetent.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_pw.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/gen_sv.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/hesiod.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/nis_nw.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/dns_pr.c
*
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/nameser/ns_ttl.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/irs/getpwent.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/deunix/include/sys/bitypes.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/port/hpux10/include/sys/bitypes.h
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\*  
/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/hmac\_link.c  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/dst\_internal.h  
\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/dst/support.c

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.\" $Id: lwres_gabn.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

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Found in path(s):

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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/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/request.h

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/ssu.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/peer.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/sdb.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/string.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/win32/include/isc/stat.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/context.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/include/dns/peer.h

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to Ron Rivest. This code was

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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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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/proforma.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/timer.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/lex.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/socket.h

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/include/isc/region.h

\*

/opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/opt\_41.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/dns/rdata/generic/txt\_16.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/isc/threads/include/isc/mutex.h

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 .\"  
 .\" \$Id: lwres\_hsterror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
 .\"

Found

in path(s):

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/lwres/man/lwres\_hsterror.3

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\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_lnaof.c

\*

/\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_network.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_ntoa.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_netof.c

\* /opt/cola/permits/1267355108\_1647467424.26/0/lib-tar/lib/bind/inet/inet\_makeaddr.c

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```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/eventlib.h
*
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/eventlib_p.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/misc.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ev_connects.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ev_files.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ev_timers.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/eventlib.c
```

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Found in path(s):

```
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ctl_clnt.c
*
```

```
/opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ctl_p.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_cidr_pton.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/isc/ctl_srvr.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/resolv/res_mkupdate.h
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/inet/inet_cidr_ntop.c
* /opt/cola/permits/1267355108_1647467424.26/0/lib-tar/lib/bind/include/isc/ctl.h
```

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```

```
<!--
```

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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 &lt;lwres/lwres.h&gt;</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>
```

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```
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Version 2.8, 17 August 2003

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

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<signature of Ty Coon>, 1 April 1989
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## 1.84 libgpg-error 1.31

## 1.84.1 Available under license :

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## 1.85 libuser 0.62

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## 1.88 systemd-pam 239

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@end display

@subheading Preamble

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

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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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We call this license the @dfn{Lesser} General Public License because it does @emph{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.

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former

contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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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@item

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

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

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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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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@smallexample

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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.

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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.

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g\B!W|j>jf_{JpP}oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu,,x{R7V2!Vq~AG{EX -
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;*!;_>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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## 1.96 grep 3.1

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# 1.97 gawk 4.2.1

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<signature of Ty Coon>, 1 April 1989
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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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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.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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The

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## 1.106 libsolv 0.7.16

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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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## 1.108 ipcalc 0.2.4

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```
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```

```
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```

```
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Any executables

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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```

```
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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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# 1.118 libstdc++ 8.4.1

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

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The hypothetical commands

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 2.1, February 1999

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gfdl(7), fsf-funding(7).

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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.

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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.



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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

For an executable, the required form of the "work that uses the

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

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

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

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

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

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Each

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## END OF TERMS AND CONDITIONS

### Appendix: How to Apply These Terms to Your New Libraries

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.>

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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 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!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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Developers that use the GNU GPL protect your rights with two steps:

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For the developers' and authors' protection, the GPL clearly explains



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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to

control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not

invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

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

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or

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

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

@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:

@enumerate a

@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 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.

@item

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:

@enumerate a

@item

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

@item

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

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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.

```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
You should
have received a copy of the GNU Lesser General Public
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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample
```

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:

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

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!

## 1.119 npth 1.5

### 1.119.1 Available under license :

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Version 2.1, February 1999



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complete object files to the recipients, so that they can relink them  
with the library after making changes to the library and recompiling  
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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

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- 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.
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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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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 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.)

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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

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## 1.121 device-mapper-libs 1.02.175

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```
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```

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Ty Coon, President of Vice
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```

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```
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```

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```

/*
 * pw_const.tph
 *
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 */

@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/1267355727\_1647467115.33/0/pw-tar/pw/include/pw\_const.tph

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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.
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 *
 *-----
 * pw.c -- password encryption/decryption routines

```

\*  
\* May 08 2000, Mark Eklund  
\*  
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\*-----  
\*/

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/\*  
\* pw.h  
\*  
\* Password routines, adopted from IOX  
\*  
\* May 2000 Mark Eklund  
\* July 2005, Craig MacFarlane  
\*  
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\*/

/\*  
\* 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.  
\*/

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/\*  
\* pw\_defs.h  
\*  
\*/



\* Password defines.  
\*  
\* July 2005, Craig MacFarlane  
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\*/

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## 1.123 glib 2.56.4

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# 1.124 xz-libs 5.2.4

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## 1.125 sqlite 3.26.0

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# 1.128 basesystem 11

## 1.128.1 Available under license :

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```
%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](https://fedoraproject.org/wiki/Fedora_28_Mass_Rebuild)

\* Wed Jul 26 2017 Fedora Release Engineering <releng@fedoraproject.org>

- 11-4

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- \* 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/1267355348\_1644279866.18/0/basesystem-11-5.el8.src.rpm-cosi-expand-archive-kpkKcrr3/basesystem.spec

## 1.129 python 4.14.3

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```

```
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## 1.130 dbus-daemon 1.12.8

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## 1.133 elfutils 0.182

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## 1.134 cryptsetup-libs 2.3.3

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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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## 1.135 libssh-config 0.9.4

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## 1.136 python36 3.6.8

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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 | 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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## 1.137 libmetalink 0.1.3

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\* @(#)bitstring.h 8.1 (Berkeley) 7/19/93

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## 1.141 hostname 3.20

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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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## 1.147 kmod-libs 25

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## 1.149 rsyslog 8.1911.0

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## 1.150 libsepol 2.9

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## 1.154 audit-lib 3.0

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# 1.156 crypto-policies 20200713

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## 1.157 strace 5.7

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## 1.160 openssl 1.0.2k

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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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The End

# 1.161 json-c 0.13.1

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The End

## 1.171 gdbm-libs 1.18

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file

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## 1.174 ncurses-libs 6.1

### 1.174.1 Available under license :

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
```

# 1.175 device-mapper 1.02.175

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# 1.181 diffutils 3.6

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@c ispell-local-pdict: "ispell-dict"

@c End:

# 1.182 libcurl 7.61.1

## 1.182.1 Available under license :

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=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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##

BoringSSL

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## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## OpenLDAP

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## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.183 bzip2 1.0.6

### 1.183.1 Available under license :

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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# 1.184 python3-libdnf 0.55.0

## 1.184.1 Available under license :

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# 1.185 platform-python-setuptools 39.2.0

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when it starts in an interactive mode:

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

The hypothetical commands `show w' and  
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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

```
Ty Coon, President of Vice
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# 1.190 iputils 20180629

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`-- vile: txtmode file-encoding=utf-8`

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of `ncurses`.

Current `ncurses` maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: \*

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## 1.195 p11-kit 0.23.21

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/bsd/daemon.c  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/bsd/strsep.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/openssl\_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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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.3

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/include/isccc/version.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/include/bind9/check.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccfg/log.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/bind\_registry.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccfg/include/isccfg/log.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccfg/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/zonekey.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/bindevt.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/key.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/include/bind9/getaddresses.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/sterror.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/sterror.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/DLLMain.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/solaris/include/sys/bitypes.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccfg/include/isccfg/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/syslog.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind9/include/bind9/version.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/ntgroups.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/win32/version.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/ntpaths.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/sterror.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/ntgroups.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/platform.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/win32/DLLMain.c

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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/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getaddrinfo.3
```

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```
*/
```

```
/*
```

```
* SHA-1 in C
```

```
* By Steve Reid <steve@edmweb.com>
```

```
* 100% Public Domain
```

```
*
```

```
* Test Vectors (from FIPS PUB 180-1)
```

```
* "abc"
```

```
* A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
```

```
* "abcdbcdecdefdefgefghfghighijhijkjkljklmklmnlmnomnopq"
```

```
* 84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
```

```
* A million repetitions of "a"
```

```
* 34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
```

```
*/
```

Found in path(s):



\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/sha1.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_ho.c

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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 &lt;lwres/netdb.h&gt;</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>

</funcsynopsis>

<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 `lwres_getaddrinfo()` will return a null-terminated string containing the canonical name of the specified hostname in `ai_canonname` of the first `addrinfo` structure returned. Setting the `AI_PASSIVE` bit indicates that the returned socket address structure is intended for use in a call to `bind(2)`.

In this case, if the hostname argument is a `NULL` pointer, then the IP address portion of the socket address structure will be set to `INADDR_ANY` for an IPv4 address or `IN6ADDR_ANY_INIT` for an IPv6 address.

When `ai_flags` does not set the `AI_PASSIVE` bit, the returned socket address structure will be ready for use in a call to `connect(2)` for a connection-oriented protocol or `connect(2)`,

`sendto(2)`,

or `sendto(2)`

<refentrytitle>sendmsg</refentrytitle><manvolnum>2

</manvolnum>

</citerefentry>

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()</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>.

</para>

<para>

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>,

<citerefentry>

<refentrytitle>lwres\_freeaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>lwres\_gai\_strerror</refentrytitle><manvolnum>3</manvolnum>

</citerefentry>,

<citerefentry>

<refentrytitle>RFC2133</refentrytitle>

</citerefentry>,

```
<citrefentry>
<refentrytitle>getservbyname</refentrytitle><manvolnum>3</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>connect</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>sendto</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>sendmsg</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>,>
```

```
<citrefentry>
<refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum>
</citrefentry>.
</para>
```

```
</refsect1>
</refentry>
```

## Found

in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.docbook  
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- \*
- /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/time.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/rwlock.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/base64.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/rwlock.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/time.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/task.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mx\_15.c
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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/bitypes.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/hesiod\_p.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getpwent.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_pw.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_parse.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/nis\_ng.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getnetgrent.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/bitypes.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/bitypes.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/hesiod.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/util.c

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 /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/hesiod.h  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/bitypes.h  
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 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/lynxos/include/sys/bitypes.h  
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 /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/netbsd/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_p.h  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/bsdos2/include/sys/bitypes.h  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irs\_data.h  
 \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_net\_pton.c  
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_neta.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/irix/include/sys/bitypes.h
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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/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.html

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_buffer.docbook

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getaddrinfo.html

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_hstrerror.docbook

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_config.html

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getnameinfo.docbook

\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gai\_strerror.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gnba.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_context.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_packet.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gabn.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_buffer.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_noop.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gethostent.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_packet.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gettrsetbyname.html  
\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_inetntop.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_gnba.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_noop.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_getipnode.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_resutil.html  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres.docbook  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_inetntop.html

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.\"

.\" \$Id: lwres\_gnba.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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.\"
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.\"
```

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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):

```
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```
/*
```

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```

```
*
```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp\_p.h

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/darwin/include/sys/bitypes.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/rhapsody/include/sys/bitypes.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/hmac\_link.c

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/dst\_internal.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/support.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/dst\_api.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.
])

;;
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 $use_threads
then
  AC_MSG_RESULT(mit-threads/unproven-threads)
  pkg="$LOCALBASE/threads"
  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
      esac
  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 " \\\t"; 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_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 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_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(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(setgrouper,,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
*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 **pwpf);
], ,
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 **pwpf);
], ,
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 spttr"
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 spttr"
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);
]
”
[
INETGR_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);
]
”
[
INETGR_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 *);
]
”
[
SETNETGMENT_ARGS="#undef SETNETGMENT_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/1267355528\_1647467049.58/0/lib-tar/lib/bind/configure.in

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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>,&br/><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/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_config.docbook
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```

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```
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp.c

\*

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/include/isccc/result.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/result.c

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- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/md5.h
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/md5\_dgst.c
- \* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/dst/md5\_locl.h

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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.";
}

```

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```
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```

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/alist.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/ccmsg.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/include/isccc/symtab.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/lib.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/include/isccc/sexpr.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/symtab.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isccc/include/isccc/types.h

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/base64.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/alist.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/util.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/symtype.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/base64.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/lib.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/sexpr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isccc/include/isccc/cc.h
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```
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```

```
*
```

```
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_netof.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_network.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_makeaddr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/inet/inet_ntoa.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/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/request.h
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```

```
/*
```

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\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/soa\_6.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdatatype.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/version.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/version.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/condition.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/null\_10.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/util.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/condition.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ns\_2.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/time.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/mutex.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mb\_7.h

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ns\_2.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/time.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mr\_9.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/md\_3.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/minfo\_14.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mx\_15.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/minfo\_14.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/md\_3.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataclass.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/win32/version.c

```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/threads/include/isc/thread.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt_16.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/version.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mf_4.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/fg/win32/version.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mf_4.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mb_7.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/version.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/event.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ptr_12.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/version.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/opt_41.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/thread.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mr_9.c
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ptr_12.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/threads/condition.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/eventclass.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/error.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/a_1.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/boolean.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cname_5.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mg_8.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/thread.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/error.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/hinfo_13.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/proforma.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/mg_8.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cname_5.c
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst\_parse.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>
<funcsynopsis>
<funcsynopsisinfo>#include &lt;lwres/lwres.h&gt;</funcsynopsisinfo>
<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

<citrefentry>  
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>.

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

<citrefentry>  
<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>  
</citrefentry>

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>  
<citerefn>  
<refentrytitle>lwres\_conf\_init</refentrytitle><manvolnum>3</manvolnum>  
</citerefn>,&br/>  
<citerefn>  
<refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum>  
</citerefn>,&br/>  
<citerefn>  
<refentrytitle>free</refentrytitle><manvolnum>3</manvolnum>

</manvolnum>

</citerefentry>.

</para>

</refsect1>

</refentry>

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_context.docbook

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Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_init.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_send.c

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\*  
\* BINOS specific changes to associate memcluster with an evctx  
\*  
\* March 2014,  
\* Aswin Kuppusami  
\*/

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/memcluster\_bin0s.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/memcluster\_p.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ev\_waits.c

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ev\_streams.c

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```

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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/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/msg_eventlib.c
```

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/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/irp\_ho.c  
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.\" \$Id: lwres\_inetntop.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
.\"

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_inetntop.3  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/stdio.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/resource.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/offset.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/int.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/forward.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/gai\_strerror.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/net.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/keytable.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/socket\_p.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/errno2result.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/forward.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/entropy.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/quota.h  
\*

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/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwres_grbn.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/keyboard.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/resource.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/win32/bindevt/bindevt.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/result.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/ipv6.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdatalist_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/bit.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/fsaccess.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/task_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/gssapi.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/soa.h
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/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/context_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/resource.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/file.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/thread.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwres_gabn.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/fsaccess.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/gethost.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/lookup.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/netdb.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/ondestroy.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/ntpaths.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/hmacmd5.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/stats.c
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/os.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/condition.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/sdb.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/condition.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/offset.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/unistd.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/keyboard.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/once.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/fsaccess.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/platform.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwres_noop.c
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/formatcheck.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/keytable.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/soa.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/timer.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/stats.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/version.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lwres.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lang.h

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/diff.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/stdio.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/errno2result.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/keyboard.c
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/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/hex.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwpacket.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/hmacmd5.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/mutex.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwresutil.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/quota.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/timer_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/assert_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lwbuffer.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/netdb.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/include/lwres/int.h
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/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/context.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/lwbuffer.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/stdio.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/keyboard.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/netdb.h.in
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/include/isc/thread.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/os.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/ondestroy.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nothreads/mutex.c
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-->
```

```
<!-- $Id: lwres_ghostent.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>
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<funcdef>
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<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>
</functsynopsis>
</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>

```

```

</listitem>
</variablelist>
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>,</function>

<function>lwres\_sethostent(</function>,</function>

<function>lwres\_endhostent(</function>,</function>

<function>lwres\_ghostent\_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.

`<function>lwres_gethostbyname()</function>` and `<function>lwres_gethostbyname2()</function>` look up the hostname `<parameter>name</parameter>`. `<function>lwres_gethostbyname()</function>` always looks for an IPv4 address while `<function>lwres_gethostbyname2()</function>` looks for an address of protocol family `<parameter>af</parameter>`: either `<type>PF_INET</type>` or `<type>PF_INET6</type>` &mdash; IPv4 or IPV6 addresses respectively. Successful calls of the functions return a `<type>struct hostent</type>` for the name that was looked up. `<type>NULL</type>` is returned if the lookups by `<function>lwres_gethostbyname()</function>` or `<function>lwres_gethostbyname2()</function>` fail.

Reverse lookups of addresses are performed by `<function>lwres_gethostbyaddr()</function>`. `<parameter>addr</parameter>` is an address of length `<parameter>len</parameter>` bytes and protocol family `<parameter>type</parameter>` &mdash; `<type>PF_INET</type>` or `<type>PF_INET6</type>`. `<function>lwres_gethostbyname_r()</function>` is a thread-safe function for forward lookups. If an error occurs, an error code is returned in `<parameter>*error</parameter>`. `<parameter>resbuf</parameter>` is a pointer to a `<type>struct hostent</type>` which is initialised by a successful call to `<function>lwres_gethostbyname_r()</function>`. `<parameter>buf</parameter>` 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_gethostbyname_r()</function>` return `<parameter>resbuf</parameter>`, which is a pointer to the `<type>struct hostent</type>` 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.

</refsect1>

<refsect1>

<title>RETURN VALUES</title>

<para>

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

<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>`.

`</refsect1>`

`<refsect1>`

`<title>SEE ALSO</title>`

`<para>`

`<citerefentry>`

`<refentrytitle>gethostent</refentrytitle><manvolnum>3</manvolnum>`

`</citerefentry>`,

`<citerefentry>`

`<refentrytitle>lwres_getipnode</refentrytitle><manvolnum>3</manvolnum>`

`</citerefentry>`,

`<citerefentry>`

`<refentrytitle>lwres_hsterror</refentrytitle><manvolnum>3`

`</manvolnum>`

`</citerefentry>`

`</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>

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux9/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/unixware20/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/aix4/include/sys/cdefs.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/irix/include/sys/cdefs.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/solaris/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/lynxos/include/sys/cdefs.h
*
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/hpux10/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/mpe/include/sys/cdefs.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/port/next/include/sys/cdefs.h
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getprotoent\_r.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gethostent\_r.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/getservent\_r.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst\_parse.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/hmac\_link.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/openssldsa\_link.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/openssldh\_link.c

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Found

in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/isc/eventlib.mdoc
```

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\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/getrrset.c

\*

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/validator.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscconf/parser.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwconfig.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/entropy.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/hex.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/byaddr.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/msgs.h

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/validator.h

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/entropy.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/socket.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/opensslrsa\_link.c

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/byaddr.h

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/diff.c

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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/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres.3
```



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```
/*-----
* eventlib definitions specific to binos
*
* January 2007, Vikram Visweswaraiah
*
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*-----
*/
```

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/eventlib\_defs.h

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.\" $Id: lwres_gabn.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

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\*/

\*/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/name.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/result.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/types.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/gen.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/name.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/socket.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/sockaddr.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/time.c

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rcode.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdata.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/lex.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/task.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 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 */

```

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/platform.h.in

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\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/a\_1.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/null\_10.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/netaddr.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/timer.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/region.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/txt\_16.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/buffer.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/soa\_6.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/proforma.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/hinfo\_13.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/threads/include/isc/mutex.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/opt\_41.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/socket.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/event.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/lex.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/timer.c

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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
```

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.\" \$Id: lwres\_resutil.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

Found

in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/man/lwres\_resutil.3

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\* @(#)cdefs.h 8.7 (Berkeley) 1/21/94  
\*/

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/aux3/include/sys/cdefs.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/qnx/include/sys/cdefs.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/irp.h

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/sco42/include/sys/un.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_date.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_findzonecut.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/irpmarshall.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_debug.h

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.\n \$Id: lwres\_hsterror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$\n

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```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscconf/namedconf.c
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/iscconf/include/iscconf/grammar.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/ds.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/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/platform.h.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 &lt;lwres/lwres.h&gt;</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

`<citrefentry>`

`<refentrytitle>lwres_gabn</refentrytitle><manvolnum>3`

`</manvolnum>`

`</citrefentry>`

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 `LWRES_ADDRTYPE_V4` for IPv4 addresses and `LWRES_ADDRTYPE_V6` for IPv6 addresses. Results of the lookup are returned in `*structp`.

`lwres_getnamebyaddr()` performs reverse lookups. Resolver context `ctx` is used for memory allocation. The address type is indicated by `addrtype`: `LWRES_ADDRTYPE_V4` or `LWRES_ADDRTYPE_V6`. The address to be looked up is given by `addr` and its length is `addrlen` bytes. The result of the function call is made available through `*structp`.

<refsect1>

<title>RETURN VALUES</title>

<para>

Successful calls to

`lwres_string_parse()`

and

`lwres_addr_parse()`

return

`LWRES_R_SUCCESS`.

Both

functions return

`LWRES_R_FAILURE`

if the buffer is corrupt or

`LWRES_R_UNEXPECTEDEND`

if the buffer has less space than expected for the components of the encoded string or address.

</para>

<para>

`lwres_getaddrbyname()`

returns

`LWRES_R_SUCCESS`

on success and it returns

`LWRES_R_NOTFOUND`

if the hostname

`name`

could not be found.

</para>

<para>

`LWRES_R_SUCCESS`

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>

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gen.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/nis.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/logging.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_print.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_ntop.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/gen\_gr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_nw.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns\_p.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/nsap\_addr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_mkupdate.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/dns.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_ng.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/ssu.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/peer.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/stat.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ssu.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/threads/thread.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/nis\_gr.c

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_sv.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

.

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/win32/bindevt/bindevt.mc

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.\n \$Id: logging.mdoc,v 1.1 2004/11/03 01:39:04 abstine Exp \$

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.\n

.\n

The following six UNCOMMENTED lines are required.

.\nOs OPERATING\_SYSTEM [version/release]

.\nDt DOCUMENT\_TITLE [section number] [volume]

.\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 .Sh 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

Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/logging.mdoc

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Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_data.c

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_data.c

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Found in path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/request.c

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/ipv6.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/pthreads/mutex.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwres\_gnba.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/errno2result.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/file.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/entropy.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/fsaccess.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/unix/include/lwres/net.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/dst.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscfg/include/iscfg/cfg.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/errno2result.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/os.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/sec/dst/gssapi\_link.c  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/bsd/strtol.c

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.\" $Id: lwres_buffer.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

Found

in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_buffer.3
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```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/dir.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rbtdb64.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lib.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rbtdb64.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/stdtime.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/time.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/syslog.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/unspec_103.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/app.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lang.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/nsap_22.h
```

```

* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/once.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/bitstring.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/stdtime.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/gen-unix.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rootns.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/compress.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_result.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/srv_33.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/dbtable.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/fixname.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/bufferlist.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/bufferlist.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rbtdb.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/naptr_35.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/dir.c
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/journal.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/netdb.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/lfsr.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/commandline.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rp_17.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/msgcat.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/interfaceiter.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/app.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rp_17.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/int.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/nls/msgcat.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/callbacks.c
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/tkey.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/dbiterator.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/int.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sig_24.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/lib.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cert_37.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/dir.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/rdatastructpre.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/secproto.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/a6_38.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/taskpool.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/base64.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/bitstring.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/stdtime.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/aaaa_28.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_lib.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/stdtime.h

```



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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dname_39.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dname_39.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/ipv6.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdatasetiter.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/key_25.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/tcpmsg.c
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/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/nsap_ptr_23.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/loc_29.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/netdb.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/serial.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdatalist.h
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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/resultclass.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/lib.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/keyflags.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/serial.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/include/dst/result.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/cache.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/magic.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/threads/include/isc/once.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/cert.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rdatasetiter.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/ttl.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/isdn_20.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/random.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/once.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/any_255/tsig_250.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/lib.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/syslog.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/kx_36.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/dir.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/interfaceiter.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/gpos_27.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rt_21.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/tcpmsg.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/taskpool.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/rcode.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/mutexblock.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/tests/include/tests/t_api.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/mutexblock.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/dbtable.h
*

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/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/hs\_4/a\_1.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/dbiterator.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/x25\_19.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/rdatastructsuf.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/include/lwres/lwpacket.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ttl.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/secalg.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ipv6.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/afbdb\_18.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/wks\_11.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/ctl.h

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ctl\_srvr.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ctl\_p.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_cidr\_ntop.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/inet/inet\_cidr\_pton.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ctl\_clnt.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/resolv/res\_mkupdate.h

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\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/compress.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/callbacks.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataslab.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/unspec\_103.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/dnssec.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/tsig.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/log.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/masterdump.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/hs\_4/a\_1.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/journal.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/gpos\_27.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/nsap\_22.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/zt.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/events.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/netaddr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/acl.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/ncache.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/ratelimiter.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/ipv6.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nxt\_30.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/x25\_19.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rbt.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/zt.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/ratelimiter.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/master.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rootns.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/tsig.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/wks\_11.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/lfsr.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/aaaa\_28.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/acl.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/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_config.3
```

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```
*/
```

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```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_pr.c
```

```
*
```

```
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind/irs/irp_pw.c
```

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```
<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook V4.1//EN">
```

```
<!--
```

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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>
</functsynopsis>
```

<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\_rclass</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>

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in path(s):

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path(s):

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rbtdb.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/symtab.c

\*

/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/inet\_ntop.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/symtab.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/lwres/lwresnetpton.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/eventlib.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ev\_connects.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/eventlib\_p.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ev\_timers.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/ev\_files.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/misc.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/eventlib.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_pr.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/irs/lcl\_pw.c

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/heap.h

\*



```
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/mem.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/assertions.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/heap.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/assertions.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/include/lwres/list.h
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```

```
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.\"
.\" $Id: lwres_getrrsetbyname.3,v 1.1 2004/11/03 01:39:06 abstine Exp $
.\"
```

#### Found

in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/man/lwres_getrrsetbyname.3
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```

```
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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\_gabn.docbook,v

1.1 2004/11/03 01:39:06 abstine Exp \$ -->

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<refname>lwres_gabnresponse_render</refname>
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<refname>lwres_gabnrequest_free</refname>
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<paramdef>lwres_buffer_t *b</paramdef>
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```

```

<paramdef>lwres_gabnrequest_t **structp</paramdef>
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<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.

`lwres_gabnresponse_render()`  
performs the same task, except it converts a `getaddrbyname` response structure  
`lwres_gabnresponse_t`  
to the lightweight resolver's canonical format.

`lwres_gabnrequest_parse()`  
uses context  
`ctx`  
to convert the contents of packet  
`pkt`  
to a  
`lwres_gabnrequest_t`  
structure.

Buffer  
`b`  
provides space to be used for storing this structure.  
When the function succeeds, the resulting  
`lwres_gabnrequest_t`  
is  
made available through  
`*structp`.

`lwres_gabnresponse_parse()`  
offers the same semantics as  
`lwres_gabnrequest_parse()`  
except it yields a  
`lwres_gabnresponse_t`  
structure.

`lwres_gabnresponse_free()`  
and  
`lwres_gabnrequest_free()`  
release the memory in resolver context  
`ctx`  
that was allocated to the  
`lwres_gabnresponse_t`  
or  
`lwres_gabnrequest_t`  
structures referenced via  
`structp`.

Any memory associated with ancillary buffers and strings for those  
structures is also discarded.

<title>RETURN VALUES</title>

<para>

The getaddrbyname opcode functions

<function>lwres\_gabnrequest\_render()</function>,</para>

<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>

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/list.h

\*

/\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/heap.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/memcluster.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/memcluster.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/bsd/utimes.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/isc/heap.h

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/isc/assertions.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/port/cygwin/include/ansi\_realloc.h

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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nsec\_47.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/stdlib.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ifiter\_getifaddrs.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/stat.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/portlist.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sshfp\_44.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/dnskey\_48.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rrsig\_46.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/portlist.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nsec\_47.h  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/hash.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/log.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/nsec.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/px\_26.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/kx\_36.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/tkey.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/rt\_21.c

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/db.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdatalist.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/print.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/print_p.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/tkey_249.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/resolver.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/srv_33.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/log.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/keyvalues.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/print.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/nsec.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/string.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/afbdb_18.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/xfrin.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/print.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/in_1/naptr_35.c
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```

```
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```

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```

Found in path(s):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/win32os.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/netscope.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/region.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/ds.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/sec/dst/dst_openssl.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/win32/lwconfig.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/win32os.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/netscope.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ds_43.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/opcode.h
```

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/apl\_42.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/order.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/ds\_43.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/in\_1/apl\_42.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/iscfg/include/iscfg/namedconf.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/order.h  
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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):

```
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/include/isc/md5.h
```

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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>
</funcsynopsis>
</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>`

</citrefentry>

translates these error codes to suitable error messages.

</para>

</refsect1>

<refsect1>

<title>SEE ALSO</title>

<para>

<citrefentry>

<refentrytitle>RFC2553</refentrytitle>

</citrefentry>,&br/>

<citrefentry>

<refentrytitle>lwres</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>,&br/>

<citrefentry>

<refentrytitle>lwres\_gethostent</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>,&br/>

<citrefentry>

<refentrytitle>lwres\_getaddrinfo</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>,&br/>

<citrefentry>

<refentrytitle>lwres\_getnameinfo</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>,&br/>

<citrefentry>

<refentrytitle>lwres\_hsterror</refentrytitle><manvolnum>3</manvolnum>

</citrefentry>.

</para>

</refsect1>

</refentry>

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.\" \$Id: lwres\_context.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
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in path(s):

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.\" \$Id: lwres\_gai\_strerror.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$

.\"

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.\"  
.\" \$Id: lwres\_gethostent.3,v 1.1 2004/11/03 01:39:06 abstine Exp \$  
.\"

Found

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/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/nameser/ns\_verify.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/bind/include/res\_update.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdataslab.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/dnssec.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/master.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/rdataset.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/sig\_24.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/xfrin.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/adb.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/adb.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ifiter\_sysctl.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/key\_25.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/cache.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/masterdump.c  
\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/view.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/dispatch.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/include/isc/net.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/ifiter\_ioctl.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/zone.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/interfaceiter.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/log.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/types.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/app.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rbt.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/nxt\_30.c  
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\*  
/opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/rdata/generic/cert\_37.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/unix/include/isc/net.h  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/include/dns/zone.h  
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\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/message.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/dns/view.c  
\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/net.c

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* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdataset.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/unix/net.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/db.h
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/include/dns/dispatch.h
*
/opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/lwres/getipnode.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/sockaddr.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/ncache.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/dns/rdata/generic/loc_29.c
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.\"Os

OPERATING\_SYSTEM [version/release]

.\" 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)

.\" 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/1267355528\_1647467049.58/0/lib-tar/lib/bind9/getaddresses.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/win32/sterror.c

\* /opt/cola/permits/1267355528\_1647467049.58/0/lib-tar/lib/isc/include/isc/parseint.h

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```
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*
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/isc/win32/syslog.c
* /opt/cola/permits/1267355528_1647467049.58/0/lib-tar/lib/bind9/check.c
```

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### 1.198.1 Available under license :

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```
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<signature of Ty Coon>, 1 April 1989
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## 1.201 libassuan 2.5.1

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## 1.205 keyutils-libs 1.5.10

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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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# 1.206 libsigsegv 2.11

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# 1.210 coreutils-common 8.30

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```

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```
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```

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

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# 1.212 procps 3.3.15

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<one line to give the program's name and a brief idea of what it does.>  
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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(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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threshold for this to be true is not precisely defined by law.

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## 1.213 kmod 25

### 1.213.1 Available under license :

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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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## 1.216 libarchive 3.3.3

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# 1.217 libgcrypt 1.8.5

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@subheading END OF TERMS AND CONDITIONS

@page

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

Ty Coon, President of Vice

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Version 3.1, 31 March 2009

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## 1.222 python3-setuptools-wheel 39.2.0

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#+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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## 1.224 centos-stream-repos 8

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
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## 1.228 libssh 2.1.8.0

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## 1.237 kmod 27 r0

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This is the Debian GNU/Linux prepackaged version of kmod.

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# 1.239 ply 3.11 r0

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0f398b7/ply/lex.py  
* /opt/cola/permits/1294739106_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-  
0f398b7/ply/yacc.py
```

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0f398b7/example/GardenSnake/GardenSnake.py
```

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```
* /opt/cola/permits/1294739106_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-  
0f398b7/ply/cpp.py
```

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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

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* /opt/cola/permits/1294739106_1648246439.37/0/dabeaz-ply-3-11-0-g0f398b7-tar-gz/dabeaz-ply-0f398b7/README.md
```

# 1.240 systemd 246.9 r0

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# 1.243 grep 3.4 r0

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# 1.244 busybox 1.32.0 r0

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Julian Seward, Cambridge, UK.  
jseward@bzip.org  
bzip2/libbzip2 version 1.0.4 of 20 December 2006  
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# 1.247 gobject-introspection 1.64.1 r0

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## 1.248 vim 8.2 r0

## 1.249 gnutls 3.6.14 r0

### 1.249.1 Available under license :

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Version 2.1, February 1999

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## 1.250 packaging 20.4 r0

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| 2  | 7680  | 16383 | 8704    | 4.3M |      | 8f8378c0-02 |
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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'.
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it
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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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WEV[B "1

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\*/

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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)

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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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"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.)

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

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

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

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

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## 1.258 py 1.9.0 r0

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## 1.261 ncurses 6.2 r0

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-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$  
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## 1.262 ndg-httpsclient 0.5.1 r0

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```
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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```
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```

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## 1.268 libssh2 1.9.0 r0

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- \*/

## 1.269 flask 1.1.2 r0

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## 1.270 zipp 3.4.0 r0

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## 1.271 jinja2 2.11.2 r0

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Found in path(s):

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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",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "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 :: 3.5",
        "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 :: 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/1294739281\_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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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



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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/1294739281\_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO  
\* /opt/cola/permits/1294739281\_1648246282.05/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

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# 1.274 iso8601 0.1.13 r0

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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.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* 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.

Author: Julio Merino <jmmv84@gmail.com>

\* 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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=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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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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  </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: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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## 1.276 pyasn1 0.4.8 r0

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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)  
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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).

## 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

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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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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>> 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

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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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```

[/pyasn1/contents](#)

## Use case

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[/example-use-case](#)

## Download & Install

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[/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.

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/changelog

License

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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` <<http://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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## 1.278 pluggly 0.13.1 r0

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## 1.279 attr 2.4.48 r0

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## 1.283 pysocks 1.7.1 r0

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### 1.42.99+1.43+git0+0f26747167 r0

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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)

\*/

/\*

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+ trivial database library - standalone version

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-

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```
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```

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```

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```
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```

```
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```



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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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#

# 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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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/

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This package was put together by Yann Dirson <dirson@debian.org>,

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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>.

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:

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## 1.291 acl 2.2.53 r0

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# 1.292 boost 1.74.0 r0

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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>`.

It's also possible to only enable support for ``mp_list`` by including `<boost/mp11/mpl_list.hpp>`, and for ``std::tuple`` by including `<boost/mp11/mpl_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for ``std::tuple``, which conflicts with Mp11's one.

<!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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## 1.296 pcre 8.44 r0

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## 1.297 pyang 2.2.1 r0

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## 1.301 libvirt 6.3.0 r0

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```
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```

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## 1.307 markupsafe 1.1.1 r0

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\* License: `BSD-3-Clause <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_

Found in path(s):

\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/README.rst

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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)

License: BSD-3-Clause

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>')
```

## Donate

-----

The Pallets organization develops and supports MarkupSafe and other libraries that use it. 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/markupsafe/>
- \* Documentation: <https://markupsafe.palletsprojects.com/>
- \* License: `BSD-3-Clause` <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_`
- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>
- \* Issue tracker:

<https://github.com/pallets/markupsafe/issues>

- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
  - \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

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 :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

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.\*

Found in path(s):

\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/PKG-INFO

\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/MarkupSafe.egg-info/PKG-INFO

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/\*\*

\* markupsafe.\_speedups

\* ~~~~~

\*

\* C implementation of escaping for better performance. Used instead of

\* the native Python implementation when compiled.

\*

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\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_compat.py

\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_\_init\_\_.py

\* /opt/cola/permits/1294739436\_1648246695.14/0/markupsafe-1-1-1-tar-gz/MarkupSafe-1.1.1/src/markupsafe/\_constants.py

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## 1.308 oauthlib 3.1.0 r0

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## 1.311 pciutils 3.7.0 r0

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## 1.312 flask-socketio 4.3.1 r0



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## 1.314 grpc 1.24.3 r0

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# 1.316 urllib3 1.25.8 r0

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# Contributions to the urllib3 project

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## Contributors

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\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* 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

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\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

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  - \* IPv6 url support and test coverage
  
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  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
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  - \* Optional SNI-support for Python 2 via PyOpenSSL.
  
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  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
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  - \* 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](mailto:jaywink@basshero.org)>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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  - \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <[stas.vitkovsky@gmail.com](mailto:stas.vitkovsky@gmail.com)>
  - \* Added HTTPS (CONNECT) proxy support

- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
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- \* 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>
- \* 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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## 1.318 protobuf-c 1.3.3 r0



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\* Optimize Java serialization of strings so that UTF-8 encoding happens only  
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Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM x1C compiler build issues  
\* Added atomicops for AIX (POWER)

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Any executables

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## 1.322 libtirpc 1.2.6 r0

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# 1.325 pretend 1.0.9 r0



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Found in path(s):

```
* /opt/cola/permits/1294739178_1648246428.24/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/LICENSE.rst
```

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

```
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",
    "Operating System :: OS Independent",
    "Topic :: Software Development :: Testing",
    "Programming Language :: Python :: 2.6",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3.2",
    "Programming Language :: Python :: 3.3",
    "Programming Language :: Python :: 3.4",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
]
)

Found in path(s):
* /opt/cola/permits/1294739178_1648246428.24/0/alex-pretend-v1-0-9-0-gfed40c9-tar-gz/alex-pretend-a4b2399/setup.py
```

# 1.326 pexpect 4.8.0 r0

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# 1.327 engine.io 3.13.2 r0

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## 1.329 Ivm2 2.03.06 r0

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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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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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## 1.333 binutils 2.35.1 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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Version 2, June 1991

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

#### Preamble

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 Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, 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 or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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.

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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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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included without limitation in the term "modification".)

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

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

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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.

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

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

Library into a program that is not a library.

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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



the executable.

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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>
```

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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 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!

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Version 3, 29 June 2007

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## Preamble

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

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A "covered work" means either the unmodified Program or a work based on the Program.

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public, and in some countries other activities as well.

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#### 1. Source Code.

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

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The

"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for

the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

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

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

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## 1.334 python-pip 20.0.2 r0

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#### A. HISTORY OF THE SOFTWARE

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 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   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
| 2012    | PSF          | yes  |       |                     |

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- Wichert Akkerman, 2012/02/02

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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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

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All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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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.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language

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Version 3, 29 June 2007

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\* @version 3.0 (December 2000)

\*

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\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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```

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```
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name of author  
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```

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

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## 1.342 itsdangerous 1.1.0 r0

### 1.342.1 Available under license :

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

```
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/itsdangerous/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = \"(.*)\"", f.read()).group(1)

setup(
    name="itsdangerous",
    version=version,
    url="https://palletsprojects.com/p/itsdangerous/",
    project_urls={
```

```

    "Documentation": "https://itsdangerous.palletsprojects.com/",
    "Code": "https://github.com/pallets/itsdangerous",
    "Issue tracker": "https://github.com/pallets/itsdangerous/issues",
},
license="BSD",
author="Armin Ronacher",
author_email="armin.ronacher@active-4.com",
maintainer="Pallets Team",
maintainer_email="contact@palletsprojects.com",
description="Various helpers to pass data to untrusted environments and back.",
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.*",
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 :: 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",
],
)

```

Found in path(s):

```
* /opt/cola/permits/1294740012_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/setup.py
```

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```

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----

The initial implementation of itsdangerous was inspired by Django's signing module.

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Metadata-Version: 1.2

Name: itsdangerous

Version: 1.1.0

Summary: Various helpers to pass data to untrusted environments and back.

Home-page: <https://palletsprojects.com/p/itsdangerous/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets Team

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD

Project-URL: Documentation, <https://itsdangerous.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/itsdangerous>

Project-URL: Issue tracker, <https://github.com/pallets/itsdangerous/issues>

Description: itsdangerous

=====

... so better sign this

Various helpers to pass data to untrusted environments and to get it back safe and sound. Data is cryptographically signed to ensure that a token has not been tampered with.

It's possible to customize how data is serialized. Data is compressed as needed. A timestamp can be added and verified automatically while loading a token.

## Installing

-----

Install and update using `pip`:

.. code-block:: text

```
pip install -U itsdangerous
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## A Simple Example

-----

Here's how you could generate a token for transmitting a user's id and name between web requests.

.. code-block:: python

```
from itsdangerous import URLSafeSerializer
auth_s = URLSafeSerializer("secret key", "auth")
token = auth_s.dumps({"id": 5, "name": "itsdangerous"})

print(token)
# eyJpZCI6NSwibmFtZSI6ImI0c2Rhbmdlcm91cyJ9.6YP6T0BaO67XP--9UzTrmurXSmsg
```

```
data = auth_s.loads(token)
print(data["name"])
# itsdangerous
```

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-----

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## Links

-----

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- \* Documentation: <https://itsdangerous.palletsprojects.com/>
- \* License: `BSD <<https://github.com/pallets/itsdangerous/blob/master/LICENSE.rst>>`\_
- \* Releases: <https://pypi.org/project/itsdangerous/>
- \* Code: <https://github.com/pallets/itsdangerous>
- \* Issue tracker: <https://github.com/pallets/itsdangerous/issues>
- \* Test status: <https://travis-ci.org/pallets/itsdangerous>
- \* Test coverage: <https://codecov.io/gh/pallets/itsdangerous>

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 :: 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

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/PKG-INFO

\* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/src/itsdangerous.egg-info/PKG-INFO

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```
.. rst-class:: hide-header
```

itsdangerous

```
=====
```

```
.. image:: _static/itsdangerous-logo.png
   :align: center
   :target: https://palletsprojects.com/p/itsdangerous/
```

Sometimes you just want to send some data to untrusted environments. But how to do this safely? The trick involves signing. Given a key only you know, you can cryptographically sign your data and hand it over to someone else. When you get the data back you can easily ensure that nobody tampered with it.

Granted, the receiver can decode the contents and look into the package, but they can not modify the contents unless they also have your secret key. So if you keep the key secret and complex, you will be fine.

Internally itsdangerous uses HMAC and SHA-512 for signing by default. The initial implementation was inspired by `Django's signing module <<https://docs.djangoproject.com/en/dev/topics/signing/>>`. It also supports JSON Web Signatures (JWS). The library is BSD licensed.

## Installing

```
-----
```

Install and update using `pip`:

```
.. code-block:: text
```

```
pip install -U itsdangerous
```

```
.. _pip: https://pip.pypa.io/en/stable/quickstart/
```

## Example Use Cases

```
-----
```

- You can serialize and sign a user ID in a URL and email it to them to unsubscribe from a newsletter. This way you don't need to generate one-time tokens and store them in the database. Same thing with any kind of activation link for accounts and similar things.
- Signed objects can be stored in cookies or other untrusted sources



which means you don't need to have sessions stored on the server, which reduces the number of necessary database queries.

- Signed information can safely do a roundtrip between server and client in general which makes them useful for passing server-side state to a client and then back.

## Table of Contents

-----

.. toctree::

signer  
serializer  
exceptions  
timed

url\_safe  
jws  
encoding  
license  
changes

Found in path(s):

\* /opt/cola/permits/1294740012\_1648246441.67/0/itsdangerous-1-1-0-tar-gz/itsdangerous-1.1.0/docs/index.rst

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# 1.343 pytz 2020.1 r0

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## 1.344 cJSON 1.7.13 r0

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Contributors

=====

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- \* [Roland Meertens](https://github.com/rmeertens)
- \* [Romain Porte](https://github.com/MicroJoe)
- \* [SANJEEV BA](https://github.com/basanjeev)
- \* [Sang-Heon Jeon](https://github.com/Intuition)
- \* [Simon Sobisch](https://github.com/GitMensch)
- \* [Simon Ricaldone](https://github.com/simon-p-r)

- \* [Square789](https://github.com/Square789)
- \* [Stephan Gatzka](https://github.com/gatzka)
- \* [Vemake](https://github.com/vemakereporter)
- \* [Wei Tan](https://github.com/tan-wei)
- \* [Weston Schmidt](https://github.com/schmidtw)
- \* [xiaomianhehe](https://github.com/xiaomianhehe)
- \* [yangfl](https://github.com/yangfl)
- \* [yuta-oxo](https://github.com/yuta-oxo)
- \* [Zach Hindes](https://github.com/zhindes)
- \* [Zhao Zhixu](https://github.com/zhaozhixu)

And probably more people on [SourceForge](https://sourceforge.net/p/cjson/bugs/search/?q=status%3Aclosed-rejected+or+status%3Aclosed-out-of-date+or+status%3Awont-fix+or+status%3Aclosed-fixed+or+status%3Aclosed&page=0)

Also

thanks to all the people who reported bugs and suggested new features.

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# 1.345 xinetd 2.3.15.4 r0

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# 1.347 coreutils 8.32 r0

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## 1.350 python3-pygobject 3.36.1 r0



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Any

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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.

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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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root function must still compute square roots.)

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That's all there is to it!

# 1.353 less 562 r0

## 1.353.1 Available under license :

Less License  
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Less

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

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

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The

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## 1.354 setools 4.3.0 r0

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Version 2.1, February 1999

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

## 233+git0+fe1c5e41e6 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
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# 1.357 pathlib 2.3.5 r0

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Metadata-Version: 1.1

Name: pathlib2

Version: 2.3.5

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

-----

Standalone releases are available on PyPI:

<http://pypi.python.org/pypi/pathlib2/>

Development

-----

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/mcmtroffaes/pathlib2/issues>>`\_.

## Documentation

-----

### Refer to the

`standard pathlib` <<http://docs.python.org/dev/library/pathlib.html>>`\_ documentation.

## Known Issues

-----

For historic reasons, `pathlib2` still uses bytes to represent file paths internally. Unfortunately, on Windows with Python 2.7, the file system encoder (`mbcs`) 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/mcmtroffaes/pathlib2/issues/56>>`\_ for more details.

```
.. |travis| image:: https://travis-ci.org/mcmtroffaes/pathlib2.png?branch=develop  
:target: https://travis-ci.org/mcmtroffaes/pathlib2  
:alt: travis-ci
```

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```

```
.. |codecov| image:: https://codecov.io/gh/mcmtroffaes/pathlib2/branch/develop/graph/badge.svg  
:target: https://codecov.io/gh/mcmtroffaes/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

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Found in path(s):

\* /opt/cola/permits/1294739539\_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/PKG-INFO  
\* /opt/cola/permits/1294739539\_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/pathlib2.egg-info/PKG-INFO

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\* /opt/cola/permits/1294739539\_1648246950.6/0/pathlib2-2-3-5-1-tar-gz/pathlib2-2.3.5/pathlib2/\_\_init\_\_.py  
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# 1.358 networkx 2.5 r0

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# 1.359 more-iterertools 8.5.0 r0

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pycparser -- A C parser in Python

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```

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## 1.367 polycoreutils 3.0 r0

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# 1.371 cpio 2.13 r0

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## 1.372 popt 1.18 r0

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# 1.373 nghttp2 1.41.0 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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# 1.374 squashfs-tools 4.4 r0

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Version 2, June 1991

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## 1.375 net-tools 1.60-

## 20181103+git0+0eebece8c9 r0

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## 1.376.1 Available under license :

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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: [pnpsupport@cisco.com](mailto:pnpsupport@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/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp.egg-info/PKG-INFO
- \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/PKG-INFO

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- \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-

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 \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/connection\_manager.py  
 \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device\_info.py  
 \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/clock\_sync.py  
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 \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/faults.py  
 \* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/http\_conn\_client.py

```

*
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dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/cdp.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/platform_constants.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/script_exec.py
*
/opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/reload.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/capwap.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/profile/profile.py
*
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/reasons.py
*
/opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-
dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/profile/profile_manager.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/certificate.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/user_auth.py

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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/monitor.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/errors.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/lease\_parser.py

\*

/opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/wlc.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/connection\_client.py

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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/utills/pnp\_utills.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/monitor.py

\*

/opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/errors.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/event.py

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\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/api/sudi.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/sdwan\_ztp\_discovery.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/capwap.py

\*

/opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/network/resolve.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/mechanisms/platform\_discovery.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/device.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/capability.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/discovery\_manager.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/posix\_pnp\_nohup.py

\* /opt/cola/permits/1294739260\_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/infra/policy.py

\*

```
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dev2-tar-gz/pnp-3.0.0.dev2/pnp/discovery/api/notify.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/handler.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/system/reload.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/interface_info.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/infra/exec_log.py
*
/opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
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* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/device_auth.py
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/pnp/service/services/certificate_install.py
No license file was found, but licenses were detected in source scan.
```

[bdist\_rpm]

```
release = 1
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
rpm-base = ./rpmbuild
binary-only = 1
description = Plug-n-Play Agent for Cisco Network-PnP
keep-temp = 1
```

[egg\_info]

```
tag_build =
tag_date = 0
```

Found in path(s):

```
* /opt/cola/permits/1294739260_1656118699.4351962/0/64c45240b9f81012466f585a1f857d39016ea456-pnp-3-0-
0-dev2-tar-gz/pnp-3.0.0.dev2/setup.cfg
```

# 1.377 kexec-tools 2.0.20 r0

## 1.377.1 Available under license :

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Version 2, June 1991

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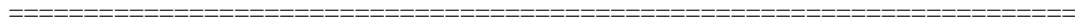
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gevent/libuv/\_corecffi\_source.c  
gevent/libuv/\_corecffi\_cdef.c

Originally based on code from <https://github.com/veege/guv>

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## 1.379 libidn 2.3.0 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 state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.

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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  
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the library. If this is what you want to  
do, use the GNU Lesser General  
Public License instead of this License. But first, please read  
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# 1.384 json-c 0.15 r0

## 1.384.1 Available under license :

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# 1.385 procps 3.3.16 r0

## 1.385.1 Available under license :

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Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. 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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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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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your



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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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```
<one line to give the program's name and a brief idea of what it does.>  
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 when it starts in an interactive mode:

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

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

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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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- 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.
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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.

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

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

4. You may copy and distribute the Library (or a portion or

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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# 1.386 python 3.8.5 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                 |
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## 1.392 subwrap 0.1.0 r0

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## 1.393 websocket-client 0.57.0 r0

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## 1.395 python-setuptools 49.6.0 r0

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## 1.399 yarl 1.6.2 r0

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## 1.403 iniconfig 1.1.1 r0

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.406 pyrsistent 0.17.3 r0

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## 1.408 rfc3987 1.3.8 r0

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## 1.410 cryptography 3.2 r0

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Found in path(s):

```
* /opt/cola/permits/1308206678_1649992634.3/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/LICENSE.rst
```

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

```
"""
```

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.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

\* /opt/cola/permits/1308206678\_1649992634.3/0/kjd-idna-v2-10-0-ge5c11db-tar-gz/kjd-idna-b8defb9/setup.py

# 1.414 jsonschema 3.2.0 r0

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## 1.415 setuptools-scm 4.1.2 r0

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## 1.416 python-requests 2.24.0 r0

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## 1.417 click 7.1.2 r0

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Found in path(s):

\* /opt/cola/permits/1308206668\_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/tests/test\_formatting.py

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Found in path(s):

\* /opt/cola/permits/1308206668\_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/parser.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/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/docs/contrib.rst
```

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```
# binary only, patch it back to the system, and then use a wrapper
```

Found in path(s):

```
* /opt/cola/permits/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/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/1308206668_1649992650.1/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/setup.py
```

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## 1.418 websockets 8.1 r0

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# 1.419 curl 7.72.0 r0

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License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem



was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

#### ## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

#### ## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

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## ## c-ares

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## ## MIT Kerberos

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## ## Heimdal

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## ## GNU GSS

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## ## libidn

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## 1.420 pam 1.3.1

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## 1.421 libmnl 1.0.4

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Otherwise, if the work is a derivative of the Library, you may distribute the

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a) Accompany

the work with the complete corresponding

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## 1.422 popt 1.16

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Upstream-Name: popt

Upstream-Contact: Jeff Johnson <[jbj@rpm5.org](mailto:jbj@rpm5.org)>

Source: <http://rpm5.org/files/popt/>

Comment:

popt was originally written by Erik Troan when he was with RedHat. It's now maintained as part of Fedora.

Files: \*

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